# CONSTRUCTION NEWS

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## IMPORTANT WORK NOTED IN THIS ISSUE.

**Railways.**
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Harriman Lines.
Fort Worth & Rio Grande.

**Electric Railways.**
Middle Island R. R. Co.
Wheeling Traction Co.
Fairview & Oklahoma City Ry. Co.

**Light and Power Plants.**
Hydroelectric plants, Statesboro, Ga.
Power plant, Tellico Plains, Tenn.
Power plant, St. Paul, Minn.
Gas tank, San Diego, Cal.

**Bridges.**
Bridge, Plymouth, Pa.

**Buildings.**
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Church buildings, Helena, Mont.
Hotel, Winnipeg, Man.
Hotel, Montreal, Que.

**Water Supply—Irrigation.**
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Reservoir, Aron, Colo.
Extension of water system, San Diego, Cal.

**Sewers.**
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Sewer, Portland, Ore.
Sewers, Harrisburg, Pa.

**Streets and Roads.**
Resurfacing, Trenton, N. J.
Roads, Indiana.
Brick paving, Carrollton, Mo.
Paving, San Diego, Cal.

**Manufacturing Plants.**
Glass plant, Clarksburg, W. Va.
Railway shops, Bayles, Ala.
Steel works, Gary, Ind.
Oil plant, Fort Wayne, Ind.

**Miscellaneous.**
Dredging, Buffalo, N. Y.
Drainage ditch, Princeton, Ind.
Dredging work, Des Moines, Iowa.
Drainage district, Helena, Ark.

## RAILWAYS.

(*Denotes that this work is advertised in Engineering News.)

ARKANSAS BELT R. R.—Company proposes to build a line from Rush, Ark., to Yellville, Ark., and thence to Stone, Ark., 40 miles, and has been granted an extension of charter. The surveys are made. The officers are: Pres., Dr. H. Wells; Secy., W. E. Layton, both of Yellville, and Frank Pace of Little Rock, Attorney.

BUFFALO, ROCHESTER & PITTSBURG.—It is probable that the company will extend its Yatesboro, Pa., branch, which now leaves the main line at Echo, Pa., up the Cowanshannock Creek to the summit near Denton, in South Mahoning, thence across to White Oak Flats, and on east to connect with the Indiana branch either at Hamill or Morrison's Summit, the latter being perhaps the more favorable point, according to the Marion Center "Independent." E. F. Robinson, Rochester, is Ch. Engr.

CHESAPEAKE & OHIO.—Decatur Axtell, Vice-Pres., Richmond, Va., has announced that two routes have been surveyed for the proposed connection with the Hocking Valley R. R., namely, one from Huntington to Wellston, Ohio, and the other from Portsmouth to Wellston, but a decision has not yet been reached. Construction must begin within a few months.

CLEVELAND, OHIO.—Regarding proposed grade elimination work in this city, for which an issue of bonds to the amount of $2,000,000 was recently approved by popular vote, Robert Huffman, Ch. Engr., Dept. of Pub. Service, advises us that preliminary negotiations with the railway companies are now taking place, but no plans for any grade elimination work to be paid from the abovementioned amount have as yet been approved. It is not probable that the necessary ordinance covering proposed work will be passed by the city council before six weeks.

DELAWARE, LACKAWANNA & WESTERN R. R.—This railway is considering, according to press reports, the electrification of the road near Scranton, Pa., on account of heavy grade. G. L. Ray, Hoboken, N. J., is Ch. Engr.

FORT SMITH, ST. LOUIS & CHICAGO.—The company proposes to build 100 miles of line from Fort Smith to Bergman, Ark. The route is through rolling country. No date yet set to receive bids. The officers are L. S. Powers, Pres.; H. H. Tittmann, St. Louis, Mo., V.-Pres.; W. A. Richardson, Ch. Engr., Harrison, Ark.

FORT WORTH & RIO GRANDE.—The State Railroad Commission has been advised that the 'Frisco System will begin the construction of the San Antonio extension of the Fort Worth & Rio Grande division as soon as the branch line which it is building from Brady, Tex., to Menardville is finished, some time this fall. At the same time the construction of the road south from Brady is started work will be commenced building north from Kingsville, Tex., towards San Antonio. The distance from Brady to San Antonio is about 125 miles, and from Kingsville to San Antonio about 160 miles. The construction of this line through to Kingsville will give a new and direct outlet to Mexico via the Brownsville-Matamoros gateway. W. B. Drake is Vice-Pres. and Gen. Supt., Fort Worth, Tex.

GEORGIA.—The McMillan Lumber Co., proposes to extend its railroad from a point seven miles east of Beach to Blackshear, where connection will be made with the Atlantic Coast Line. Connection will also be made with the Atlanta, Birmingham & Atlantic at Beach, it is reported. The entire line, when completed, will be about 20 miles long and is estimated to cost about $5,000 a mile.

GREENVILLE, GREENWOOD & AUGUSTA.—Construction is to begin soon. Right-of-way is being secured, it is stated, by J. P. Charles, Secy., of Edgefield, S. C.

GULF, TEXAS & WESTERN.—It is the intention to extend east from Jacksboro to Dallas, a distance of about 100 miles. It has also taken preliminary steps to build west from Seymour to Amarillo, about 250 miles. This is a new road, that was recently finished between Jacksboro and Seymour, 75 miles. It is stated that tentative arrangements have been made for financing the extension projects and that construction work on both ends will probably begin this fall. The route from Seymour to Amarillo will be through a territory being rapidly settled by farmers. It will run to the south of and parallel with the Fort Worth and Denver City Division of the Colorado & Southern. J. J. Jermyn is Pres, Scranton, Pa.; B. B. Cain, Jermyn, Tex., is Vice-Pres. and Gen. Mgr. Noted on Aug 11.

HARRIMAN LINES.—The full program of work the Harriman Lines have under way in Oregon and will complete this year has been made public and shows that the total amount to be expended is $20,255,000 for new bridges, new lines, block signal system and depot buildings. The division of the aggregate and the work to which it is applied is as follows:

Branch line Crabtree to Lebanon, 8 miles, $300,000.

Beaverton-Willsburg cut-off, 14 miles, including steel bridge over Williamette river at Oswego, $1,200,000.

Natron to Klamath Falls extension, 191 miles, known as the Oregon Eastern, appropriation for 147 miles (70 miles now being built—34½ miles south from Natron and 36 miles from Klamath Falls north), $9,830,000.

Pacific Railroad & Navigation Co., lines from Hillsboro to Tillamook, 90.24 miles, $3,830,000.

Deschutes road south from mouth of Deschutes River to Redmond in Crooke County, 133 miles, $5,320,000.

Lake Creek & Coeur d'Alene road from main line of the Oregon Navigation near Buckleys to Windy Bay and Lake Coeur d'Alene, 14 miles, $700,000.

Oregon & Washington Peninsula tunnel from St. Johns branch of Oregon Navigation towards Stockdale, 2.7 miles, $680,000.

St. John's to Troutdale line, 16 miles, $515,000.

Steel bridge at Portland for Oregon Navigation, $1,640,000.

Eight steel bridges on Southern Pacific and Oregon Navigation lines, $377,000.

New 90-lb. steel rails for Southern Pacific and Oregon Navigation lines, $570,000.

Automatic signals, 100 miles, $110,000.

Line changes and passing tracks, $910,000.

New passenger stations (eight) and new freight house at Portland, $153,000. R. S. Lovett, 120 Broadway, New York, is Pres.; John D. Isaacs, Chicago, is Consult. Engr. See also Montana, Idaho & Pacific.

HUDSON BAY & PACIFIC.—At Prince Albert, Sask., on Aug. 3, the Chief Engineer made public a letter received by him from J. G. F. Greville, Managing Director of the company, in London, England, stating that construction would be proceeded with immediately and pushed to completion. The engineers have permanent offices and quarters here. The filing survey is now over 100 miles out. Noted on Feb. 10.

LARAMIE, HAHN'S PEAK & PACIFIC.—This road, which is now in operation from Laramie, Wyo., west to Centennial, thence south to Foxpark, 54.6 miles, is to be extended southwest to Steamboat Springs, Colo. It is expected to have the work finished during 1910. R. D. Stewart, of Laramie, is Ch. Engr. and Supt., and J. J. Argo, of Laramie, is Locating Engr. Noted on May 12.

LAUREL FORK & MANDOTA.—A charter has been granted by the State Corporation Commission of Virginia to the Laurel Fork & Mendota R. R. Co., with offices at Abingdon. Its purpose is to build a line of railroad, 45 miles long, through Washington and Smyth Counties, connecting the towns mentioned in its name, to get out large lumber deposits and to develop the country through which it will run. W. B. Robertson, of Abingdon, Va., is Pres., Alexander Stuart, of Abingdon, Secy. and Treas. Other incorporators are Charles E. Bolling, Richmond; Egbert G. Leigh, Jr., Richmond; Chriswell Dabney Langhorne, Mirador; John Thompson Brown, Brierfield, John C. Dabney, Lynchburg.

LOS ANGELES PACIFIC.—Preparations for beginning improvements that will cost $5,000,000 or more, are complete. The several departments, which will have charge of the improvements, have been reorganized and enlarged, and are ready to begin work as soon as instructions to proceed are received from the directors. The first work will be construction of a series of tunnels in the southwestern part of the city. P. H. Albright, 431 South Hill St., Los Angeles, is Engr.

LOUISIANA.—The plans for a railroad system connecting some of the principal points of the Gulf of Mexico with Ohio River points are being worked out by L. S. Berg, Pres. of the New Orleans, Mobile & Chicago R. R. Co., and Sol Wexler, Vice-Pres. of the Whitney Central National Bank of New Orleans, according to the Lexington, (Ky.), "Leader." The plans involve the merger of a number of small railroad lines in the South into one big system and the construction of several hundred miles of railway track to connect up the smaller lines. The lines that will be merged are the New Orleans, Mobile & Chicago, a road now in operation from Mobile, Ala., to Middleton, Tenn.; the New Orleans Great Northern, a line recently completed from New Orleans to Jackson, Miss., and the Mississippi Central, a road running from Hattiesburg, Miss., to Natchez, Miss. The Pascagoula & Northern, a line now being built from Pascagoula, Miss., to Meridan, Miss., it is said, will also be brought into the merger. It is the purpose of Messrs. Berg and Wexler to build a line from Hattiesburg, Miss., to New Orleans, in order to connect the New Orleans, Mobile & Chicago with the southern terminus of the New Orleans Great Northern, while the New Orleans Great Northern will be extended to Jackson, Miss., northward to connect with the New Orleans, Mobile & Chicago at some point in North Mississippi. The New Orleans, Mobile & Chicago will be extended from Middleton, Tenn., to Memphis, Tenn., and Cairo, Ill., at an early date, and later to Louisville, Ky., and Cincinnati, Ohio.

MONTANA, IDAHO & PACIFIC.—The Harriman system is now perfecting plans for construction in the Northwest, most important of which will be the construction of the Lewiston to Butte road, a distance of 350 miles, which it is estimated will cost approximately $16,000,000. The road will be built by the Montana, Idaho & Pacific, a Harriman auxiliary company, and work may begin at an early date, according to the Spokane "Inland Herald." Plans have been filed with the Secretary of State at Boise, Idaho, showing a permanent line located. Last year Harriman engineers surveyed a complete line from near Lewiston up the south bank of the Clearwater River to Kooskia, and from that point up the middle fork and across the Bitter Roots through Lolo Pass on its way to Butte. The Northern Pacific last year also surveyed a line which will almost parallel the route. Recently Harriman officials instituted suits to condemn right-of-way and terminal grounds embraced in the town of Clarkston, and Harriman engineers are now surveying a line between the mouth of the Grande Ronde River and Enterprise on the Elgin branch, all of which indicates unusual activity in Harriman quarters. It is reported that the Huntington-Lewiston main line will be pushed to completion. See item under Harriman Lines.

MONTEZUMA & WESTERN.—This company, which recently was incorporated with a capital stock of $500,000, plans to begin work at once on its new line, which, in connection with the Argentine Central road, will make a shorter route between Denver and Leadville, Colo. The new company is controlled by persons interested in the Argentine Central. It has obtained running rights in the Argentine tunnel for 52 years, and plans to build from Waldorf, on the Argentine Central, through the tunnel to Keystone, on the Colorado & Southern. The distance between these two points is 17 miles and the new route to Leadville will be 122 miles. The tunnel will be 7,536 ft. long, and will be large enough for the operation of trains, with a narrow track for mining purposes along the main track. D. W. Brown, Denver, Colo., is Pres. Argentine Central Ry.

NEVADA NORTHERN RY.—Engineers are checking up the survey for a branch road of 14 miles that the Nevada Northern contemplates building in order to provide transportation facilities for hauling lead-silver ore from the property of the Nevada Mines Co. It will have an easy grade, exceeding 1% in only one place, where it will be 1½% for a short distance. L. G. Cannon, East Ely, Nev., is Vice-Pres. and Gen. Mgr.

ONTARIO & NORTHERN.—We are officially advised that this company has filed articles of incorporation with the Secretary of State of Wisconsin for the purpose of building a line from Ontario, Wis., to Wilton, Wis., a distance of eight miles. The capital is $75,000, partly secured. Preliminary surveys have been made and part of the right-of-way secured. The work will be light, wet and valley work. Contracts probably will be let in the spuring. S. E Rau, Sparta, Wis., is Ch. Engr. The directors are: T. A. Saunders, of Ontario, Pres.; V. A. Stoddard, C. W. Lord, L. D. Abbott, C. M. Sundon, H Timmerman, E. Stockman, L. R. Walker, E. E. Lord, S. Sloggy, F. G. Bredlow, Levi Wallace, of Ontario; and Howard Teasdale, of Sparta, Wis.

PITTSBURG & SHAWMUT.—Construction work on the extension from a point near Knoxdale, Pa., to the Allegheny River and thence to Freeport, a distance of about 65 miles, is progressing. About two-thirds of the grading has been completed. The contract for 14,000,000 lbs. of bridge steel has been awarded to the AMERICAN BRIDGE CO., and erection work on the viaducts is under way. Thirty-six miles of the line along Mahoning Creek represents very heavy construction, including four tunnels aggregating over a mile in length, and four high viaducts. The maximum grade on the entire line, when completed from Hyde, Pa., to Freeport, a distance of 102 miles, will not exceed .6 to 1% against the direction of tonnage. At Hyde the road connects with the Pittsburg, Shawmut & Northern, with which it is to be merged as soon as completed, when the receivership of the latter road will be lifted. September, 1911, is set for the completion of the Pittsburg & Shawmut. Branch lines to the Tidal and Oakland coal fields, lying along Mahoning Creek, are under contract to be completed at the same time. F. S. Smith, 60 Wall St., New York, is Receiver of the Pittsburg, Shawmut & Northern.

RED RIVER & GULF.—This is the new name of the Red River Rwy., which has recently filed amended articles of incorporation with the Secretary of State of Oklahoma, changing its name. It proposes to build from Oklahoma City south to the Red River near Grady, Jefferson County, 150 miles, and from Oklahoma City, southwest to the Red River in Jackson County, 125 miles. The directors are: Joseph Moore, George Robertson, F. J. Hawk, S. C. Hawk, Oklahoma City, and J. W. Hooker, Purcell.

SALT LAKE & IDAHO (Oregon Short Line).—To be built from Saline, Utah, on the Southern Pacific main line, north to Burley, Idaho, on the Minidoka & Southwestern, 150.49 miles. The maximum grades will be .7% ascending and .7% descending. The total ascents westbound, 1,497 ft.; total descents westbound, 1,469 ft. Maximum curvature, 4°; total curvature, 30.89 miles. The work to be carried out includes eight steel bridges, to have a total length of 220 ft. There will be 34 pile trestles, aggregating 1,065 ft. W. H. Bancroft, Pres., and William Ashton, Ch. Engr., Salt Lake City.

SANTA FE, PRESCOTT & PHOENIX.—Surveys are being made with a view to extending from Phoenix, Ariz., to a point on the Gulf of California, thus giving the road a tidewater terminal. F. M. Murphy, Prescott, Ariz., is Pres.; J. A. Jaeger, Prescott, is Ch. Engr.

TUSCALOOSA MINERAL R. R.—Incorporated with a capital of $25,000 to build a line from Tuscaloosa to Florence, Ala., about 110 miles. The directors are: F. G. Blair, Pres.; Sam Freedman, Vice-Pres.; F. M. Moody, Treas.; L. H. Maxwell, D. Rosenau, A. G. Van de Graaff, M. P. Jemison, H. B. Foster and E. B. Nuzum, all of Tuscaloosa, Ala. Woolsey Finnell, Engr.-in-Charge, has made a survey, from Tuscaloosa to Brookwood, Ala., and will be about 21 miles long. There will be two routes surveyed, one following the old Huntsville road and then on into Brookwood. The other route goes by Holt, where the furnace is located, then through by Hurricane Creek to Brookwood.

VERACRUZ, TABASCO & CAMPECHE.—William Prim Wood, Mgr., of the Veracruz, Tabasco & Campeche Railway Construction Co., which is to build the line into Yucatan, is negotiating the sale of bonds. David Coe, of Mexico City, Ch. Surveyor, expects to complete his work by the middle of September. Noted on Aug. 4.

WESTERN PACIFIC RY.—Through passenger service was inaugurated on the Western Pacific, August 22, between San Francisco and Salt Lake City, and at the same time the company established a new freight schedule which reduces the running time between these two cities to 72 hours. This piece of road, 923 miles in length, is practically an extension of the Gould system. It extends from Salt Lake City, Utah, to San Francisco, Cal. The Western Pacific connects with the Denver and Rio Grande Railroad at Salt Lake, so that the Gould lines are now continuous from Pittsburg and Detroit to the Pacific coast. E. F. Jeffery is President, 165 Broadway, New York City.

WINNIPEG, SIOUX FALLS & SOUTHERN.—Engineers representing eastern financial men have completed an examination of the right-of-way of the Brookings & Sioux Falls Ry., a short distance west of Pipestone, Minn., and a favorable report looking toward the purchase of the right-of-way will be made. It is proposed to form a north and south trunk line, and the survey is practically complete between Fargo and Sioux City. It will pass through Watertown, Brookings and Egan, S. Dak., going directly south from the latter place to Sioux Falls and Sioux City. From Kansas City the line, it is said, will be built through to the Gulf. The road is known as the Winnipeg, Sioux Falls & Southern, and the engineers state that construction will begin late this summer or early in the fall.

HAYTI.—The Haytian Senate, at Port au Prince, has ratified the railroad and plantation contracts submitted by an American syndicate of which James H. McDonald, 42 Broadway, New York, is the head. The railroad concession by the Government permits the construction of a railroad in Hayti and interest in the banana trade and other fruit interests. The contracts provide for the extention and construction of the concessions previously granted to the National R. R. Co. of Hayti. Construction work on the road, it is stated, will begin withing the next two months.

## ELECTRIC RAILWAYS.

WESTFIELD, MASS.—We are officially advised that the Hampden R. R. Co. is taking steps to organize under the laws of Massachusetts. As noted on July 21, this company intends "to construct a railway to be operated by steam or electric power between Springfield and Bondville, with a spur to Holyoke. Capital stock, $1,000,000. The following are the directors: Ralph D. Gillett, H. W. Ely, Archie D. Robinson, Westfield, Mass.; Arthur W. Eaton, Pittsfield, Mass.; Joseph A. Skinner, Holyoke, Mass.; H. H. Bowman and E. T. Ley, Springfield."

BUFFALO, N. Y.—The Buffalo & Lake Erie Traction Co. has asked the Council for a franchise to double track East Sixth St., East Twelfth St., and all the lines near East Park, in Buffalo, in order to serve the workers of the new plant of the General Electric Co. M. C. Brush, Buffalo, is Gen. Mgr.

BROOKLYN, N. Y.—The Public Service Commission has adopted an order permitting the Coney Island & Brooklyn R. R. Co. to issue bonds to the amount of $489,539 under the $10,000,000 mortgage approved by the former Board of Railroad Commissioners in 1904. The proceeds are to be used for various improvements, chiefly the removal of the tracks in Coney Island Ave., from the west side to the middle of the thoroughfare. The tracks will be in a parked space and the space taken from the sidewalks will be added to the roadway under an agreement with the city. The actual cost of this and the other improvements is estimated by the Commission's experts at about $391,630. J. E. Babcock is Ch. Engr.

JAMESTOWN, N. Y.—An application has been made to the Public Service Commission, Second District, at Albany, for permission to electrify the Jamestown, Chautauqua & Lake Erie Ry. The line is 42 miles long and connects Westfield with Jamestown. The road is operated by the Buffalo & Lake Erie Traction Co. M. C. Brush, Buffalo, is Gen. Mgr.

TARENTUM, PA.—An electric railway will be constructed from Tarentum to Saxonburg and to connect with the Butler & Harmony Street Ry. lines at Mars. Surveys have been made. Paul Rudert, Saxonburg, Pa., is one of the promoters.

REISTERSTOWN, MD.—The Baltimore & Pennsylvania Railway & Power Co., Annapolis, has been granted the right-of-way by the County Commissioners of Carroll County to build its tracks along the Reisterstown and Hanover Turnpike. At Reisterstown the line will connect with the Emory Grove line of the United Railways, and in Pennsylvania it will connect with the Hanover and York system near Melrose. When this line is completed it will connect Washington, Baltimore, York and Hanover. J. Pierce Burns is Pres. Noted on May 5.

BALTIMORE, MD.—The Maryland Electric Rys. Co. proposes building a branch from Marley Station to a point on the Magothy River in Anne Arundel County. J. F. Heyward is Vice-Pres. and Gen. Mgr., at Baltimore, Md.

MIDDLEBOURNE, W. VA.—The Middle Island R. R. Co., recently incorporated, is making surveys and construction will be started, it is stated, soon on its proposed railway, 60 miles long, to connect Sistersville, Kidwell, Middlebourne, Shirley and Clarksburg. It will furnish power for lighting. Bonds authorized, $450,000. The officers follow: T. Moore Jackson, Clarksburg, Pres.; I. M. Underwood, Middlebourne, Vice-Pres.; John F. Shore, Middlebourne, Secy. and Treas.

ROMNEY, W. VA.—Ira V. Cowgill and R. P. Monroe have applied for a 50-year charter for an electric railroad over the county road and Northwestern turnpike in Hampshire County, the road to operate between Romney, W. Va., and Winchester, Va.

BETHANY, W. VA.—The Wheeling Traction Co., which recently opened an electric line from Wellsburg to Bethany, is planning to extend the road to Washington, Pa., making a route entirely across the northern Panhandle of West Virginia. George O. Neagle is Gen. Mgr., Wheeling.

COLUMBUS, OHIO.—At a meeting of the stockholders of the recently incorporated Fifth Ave. Railway & Light Co., of Columbus, Dr. A. C. Wolfe was elected Pres.; E. W. Yantes, First Vice-Pres.; F. W. Jennings, Second Vice-Pres.; H. J. Gardner, Secy., and S. D. Brown, Treas. L. J. Snyder, in addition to the officers named, is on the Board of Directors. Noted on July 7.

FOSTORIA, OHIO.—The Fostoria & Fremont Electric Railway Co. has been granted a 25-year franchise by the County Commissioners to build a 21-mile electric railway across the public highways connecting the Lake Shore Electric Railway and the Ohio Western Electric Railway. This is part of a plan to build a railway from Fostoria to Fremont via Havens, Burgoon, Kansas and Amsden. J. D. McDonel, Secy. Noted on Dec. 16, 1909, and July 14, 1910.

CLEVELAND, OHIO.—Papers have been filed with the Secretary of State, Carmi A. Thompson, at Columbus, showing that the consolidation of the Cleveland & Mahoning Railroad Co., the Niles & New Lisbon Railway Co. and the Liberty & New Vienna Railroad Co. has been effected under the name of the Cleveland & Mahoning Valley Railroad Co., a new corporation. The consolidation of the three named electric lines will mean the start of a large traction system in that part of the state. The Board of Directors of the new company consists of Henry E. Parsons, Coshocton; Reuben Hitchcock, Painesville; Stevenson Burke, Cleveland; John Tod, Cleveland; A. K. Spencer, Cleveland; Daniel J. Day, Cleveland; W. C. Andrews, Cleveland; W. P. Ewing, New York; S. L. M. Barlow, New York; E. R. Perkins is Pres. of the corporation.

CHICAGO, ILL.—The Eastern Illinois Ry. Co. has filed a trust deed in favor of the First Trust & Savings Bank, Trustee, to secure an issue of $5,000,000 in bonds. The road will run direct from West Hammond to Harvey and to Riverdale, thence to the city limits. There will be about 15 miles of trackage in all and the line will cross the railroad tracks over steel viaducts. The route has not as yet been fully agreed upon, but as soon as these details are settled it is understood that work will be commenced at once. A. L. Drum, 125 Monroe St., Chicago, is Consult. Engr. Noted on Aug. 4.

STERLING, ILL.—Sterling-Moline Traction Co. has been incorporated in Illinois to build a railroad from Sterling to Princeton, Ill. Capital stock, $100,000. Principal office, Sterling. Among the directors are: Joseph Wright, Rockfalls; A. R. Lewis, Morrison, C. P. Sturtevant, Erie; W. McNeil, Prophetstown, George A. Allen, J. W. Harpham and Augustus G. Van Petten, Sterling, Ill. Noted on Aug. 11.

MASON CITY, IOWA.—The Mason City & Clear Lake Ry. Co. has been granted permission by the Commissioners of Cerro Gordo County to build an electric railway along and upon the highway extending north from Mason City. J. H. Lary is Ch. Engr., Mason City.

MANHATTAN, KAN.—The Manhattan City & Interurban Ry. Co., Manhattan, Kan., is considering plans for extending its line to Junction City. Surveys have been made on the reservation at Fort Riley, in order to apply to the War Department for a right-of-way. Joseph T. West is Gen. Mgr., Manhattan.

ST. CHARLES, MO.—O. J. Martin has applied to the City Council for a franchise to build a 5-mile railway over certain streets in St. Charles.

PINE BLUFF, ARK.—The Citizens' Light & Transit Co. proposes making improvements to its line to the extent of $350,000. John F. Rutherford is Pres.

BROWNWOOD, TEX.—The Brownwood Southwestern Ry. Co. has completed surveys and has secured financial backing for its proposed railway from Brownwood to Rockwood, 30 miles. The company force will do the work. W. S. Walker, Granbury, is interested.

HOUSTON, TEX.—The grading contract for the Houston & Bay Shore Traction Co. is to be let at once and work completed within 90 days. A. Foster Irwin is interested.

FAIRVIEW, OKLA.—The Fairview & Oklahoma City Ry. Co. will let contract probably in 60 days for 4½ miles of line from Fairview to Rusk, Okla., including one bridge about 60 ft. long, spanning a gulley 15 ft. deep. The country is level. The other officers are O. E. Snyder, Pres.; W. D. Bowling, H. Clay Willis and Henry A. Bower, Vice-Presidents; M. M. Fulkerson, Treas. and W. B. Noble is Secy. and Gen. Mgr. Noted on Aug. 11.

BELLINGHAM, WASH.—The Bellingham-Skagit Ry. Co. has been granted a franchise by the Council to construct an electric railway over certain streets in Bellingham. It is the intention to build an interurban railway to connect towns in Bellingham and Skagit County. Charles M. Drummond is Pres.

COOS BAY, ORE.—The Coos Bay Traction Corporation has filed articles of incorporation for the purpose of building a standard gage electric railway line between Roseburg and Coos Bay. This corporation has an authorized capital of $1,000,000, and its officers are: Geo. T. Averill, Pres.; W. P. Evans, Secy. and Mgr.; N. B. Campbell, Treas.; J. H. Robinson, Ch. Engr.; J. H. Somers, Vice-Pres. and Mgr. of Real Estate Department. The articles of incorporation of this company were filed with the Secretary of State, in Salem, Ore., on July 25. The incorporators named are: George M. Perrine, George F. Averill, W. B. Campbell, A. T. Harding and W. P. Evans.

VALLEJO, CAL.—The Board of Directors of the Vallejo & Northern Electric R. R. Co., at a special meeting here, voted to increase the capital stock from $2,500,000 to $10,000,000. It was announced that the actual construction operations would be commenced within a comparatively short time. The start on the joint bridge at the foot of M St., Sacramento, will be under way within a few weeks.

## LIGHT AND POWER PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—The Hydraulic Engineering Co. has been organized at Portland for the purpose of constructing and equipping electrical plants, and for other purposes with $500,000 capital stock. The officers are: A. F. Dunham, Pres., Portland; M. S. Wells, Treas., Portland. Certificate was filed on Aug. 1.

PROVIDENCE, R. I.—The Narragansett Electric Lighting Co. has been granted permission by the Board of Harbor Commissioners to lay a cable from a point above Conimicut Point to a place in Nyatt, about two miles.

PROVIDENCE, R. I.—Permits have been issued by the Inspector of Buildings to the Providence Gas Co. for the construction of an addition to the plant on Allen's Ave.

SOUTH NORWALK, CONN.—The Housatonic Power Co. is preparing to make improvements to its plant this fall, which will include replacing the present single-phase alternators with 2-phase machines and the erection of a 12-mile transmission line to Georgetown, Conn., passing through South Wilton, Wilton and Cannon Station. J. K. Punderford, of New Haven, is Mgr.; George H. Caffrey, of South Norwalk, Conn., is Supt.

NEW YORK, N. Y.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded contract for the installation of condensing machinery in the New York Navy Yard to EVANS, ALMIRALL & CO., 281 Water St., New York, on Worthington apparatus, at $36,133.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Aug. 29, by George McAneny, Pres. Boro. of Manhattan, for the labor and materials required for the installation of steam and water pipes connecting the power plant of the Hall of Records with the City Court (Brown Stone Building), the County Court-House and City Hall.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Sept. 6, by C. B. J. Snyder, Supt., School Bldgs., for installing electric equipment in addition to and alterations in Erasmus Hall High School, on the easterly side of Flatbush Ave., about 205 ft. north of Grant St., Boro. Brooklyn, and for installing electric equipment in new Public School No. 44, on the southwest corner of Prospect Ave. and 176th St., Boro. The Bronx.

BROOKLYN, N. Y.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Sept. 7, for furnishing and installing lighting fixtures in the post-office building at Brooklyn.

NIAGARA FALLS, N. Y.—A mortgage of $3,500,000 has been filed by the Hydraulic Power Co. of Niagara Falls. The company intends to make extensive additions with a view to increasing its power capacity.

ERIE, PA.—T. Sherman Clark, Edward G. Germer, Hugh Neely Fleming, Frank M. Wallace and Harry L. Moore have applied to Governor Stuart for a charter for the Erie Light & Power Co., proposing to generate gas and electricity for lamps, heat and power purposes.

SCRANTON, PA.—The Scranton Electric Co. is preparing to furnish the steam heating service from its plant on the river bank, making the Dix Court plant a substation. Contracts have been awarded by the company aggregating $50,000. Of this amount about $20,000 will be expended for the reconstruction of the boiler plant of the river bank station, the remainder to be used for laying a new main through the central part of the city. The contract for the work has been awarded to LUDWIG STIPP.

*ANNAPOLIS, MD.—Bids are asked by the Navy Dept., Washington, D. C., until 11 a. m., Oct. 1, for completing the power plant at the U. S. Naval Academy here. Beekman Winthrop is Acting Secy.

BALTIMORE, MD.—H. Kent McCay, Pres. McCay Engineering Co., 9 East Lexington St., Baltimore, who was engaged by the city to estimate the cost of a municipal lighting plant for the city, has reported that a plant capable of furnishing electricity for all the city buildings within a radius of half a mile from the old central police station can be built and put into operation for $35,000. He recommends that the old central police station, on North St., be used as a site for the proposed plant, and estimates that if the city would change the building to suit the needs of the plant, the cost would be reduced to $30,000. If the they should decide to install its own plant he recommends that the present plant in the court-house be retained for use in emergencies. It is estimated that the cost of electricity for lighting the public building would be but 1½ cts. per KW.-hour. B. T. Fendall is City Engr.

WASHINGTON, D. C.—Bids will be received at the Bureau of Supplies and Accounts, Navy Dept., Washington, until Aug. 30, for furnishing at the various navy yards and naval stations the following supplies: Las Animas, Colo., Schedule 2808, cross-arms, pins and 10,000 ft. bare copper wire, etc. Schedule 2792, eleven sets of 5-KW. turbo-generator sets and accessories to be delivered at various navy yards.

Bids are asked until 3 p. m., Sept. 14, by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, for furnishing and installing lighting fixtures in the U. S. buildings at Denison, Tex.; Dixon, Ill.; Fredericksburg, Va.; Hudson, N. Y.; Manitowoc, Wis.; New Haven, Conn.; Raleigh, N. C.; St. Augustine, Fla.; Staunton, Va., and Texarkana, Tex.

PARKERSBURG, W. VA.—The Board of Education has awarded contract for the heating and ventilating system for the new 12-room building now being constructed to the AMERICAN WARMING & VENTILATING CO. at $6,422.

MONTGOMERY, W. VA.—A franchise has been granted to the United Fuel Supply Co. to furnish natural gas to this city.

SALISBURY, N. C.—The Hambly Mfg. Co., of Salisbury, has arranged with the SOUTHERN POWER CO. for current and for the installation of electric drive. The company is capitalized at $125,000 and the initial expenditure for the plant will equal that amount.

RUTHERFORDTON, N. C.—The citizens have voted in favor of issuing $35,000 of bonds for installing an electric light plant and water-works system.

CHARLESTON, S. C.—Plans are being prepared by the Charleston Consolidated Ry. & Lighting Co. for the construction of a new power-house here. Paul Spencer, of Philadelphia, Pa., is Consulting Engr.; George H. Waring is Vice-Pres. and Gen. Mgr.

STATESBORO, GA.—The Ogeechee River Electric Co., organized for the purpose of constructing three hydroelectric plants on the Ogeechee River, to develop 16,000 HP. for transmission by electricity to Statesboro, Oliver, Millen, Rocky Ford, Scarboro, Stillmore and Savannah, has completed preliminary surveys. Estimated cost $1,500,000. A. J. Brinson, of Oliver, Ga., is Pres.; D. G. Zeigler & Co., of Savannah, Ga., and Jacksonville, Fla., are Engrs. Noted on Aug. 18.

EAST POINT, GA.—It is proposed to install a duplicate of the present generating unit in the municipal electric light plant before next winter and establish a day service, and plans are also being considered to supply electricity in College Park and Hopeville; also to light the streets in both towns. S. T. Maupin is Mgr.

CLEARWATER, FLA.—Bids will be received by the Clearwater Ice Factory, J. M. & J. N. McClung, proprietors, until Sept. 1 for one 100-KW. engine type, 60-cycle, 2,300-volt, 3-phase generator with exciter; one 150-HP. simple engine, 277 r.p.m.; one 60-KW. engine type, 60-cycle, 2,300-volt, 3-phase generator with exciter, direct connected to one 90-HP. simple engine, 300 r.p.m. Bids will be received for either complete sets of generator and engines or separate.

ATHENS, ALA.—Improvements and extensions to the municipal electric light and water plant will be made, bonds having been voted. The work will include the installation of a new battery of boilers and other machinery and reconstruction of lines. A new engine and pumps may be installed to replace the ones now in use. C. D. White is Supt. Municipal Light and Water Plant.

CROWLEY, LA.—The Electric Light and Water Committee of the Council has awarded contract to the SKINNER ENGINE CO., of Erie, Pa., for a 240-HP. high speed, automatic engine, direct connected, to be installed in the municipal electric light plant.

TELLICO PLAINS, TENN.—The Tellico Power Co., lately incorporated, is contemplating the construction of a power plant, bids for the construction of which will be asked in October. Estimated cost $240,000, including the construction of a concrete flume and steel pipe line. J. C. Kn[illegible] is in charge.

WELLSVILLE, OHIO.—The Ohio Valley Scenic Ry. Co. will erect a new power plant at Jones crossing just west of the steep grade at Yellow Creek. The company has purchased a stone building located there from the Pennsylvania R. R. Co., and will immediately convert it into a power-house. Estimated cost, $12,000.

YOUNGSTOWN, OHIO.—The County Commissioners of Mahoning County have decided to build an electric light and power plant for the new court-house and jail. Judge Kennedy and William Smith have been appointed to consult with the Bruce-McBeth Co. in connection with awarding contract for same. Estimated cost, $31,000.

JACKSON, OHIO.—Extensions will be made to the municipal electric light plant and bids will be asked. It is planned to install two 100-KW. alternators, one direct-current arc machine with sufficient output to provide for 150 lamps. W. A. Dallas is Clk. Bd. of Pub. Wks.

SOUTH BEND, IND.—The Indiana & Michigan Electric Co. is preparing to place its wires underground in Washington, Colfax and La Salle Aves., South Bend. Estimated cost, $75,000.

WARREN, IND.—The city is considering the installation of an additional dynamo in the municipal electric light and water plant. W. H. Hickerson is Supt.

MARION, IND.—The Marion Light & Heating Co. has been granted a franchise by the County Commissioners to run a high-tension wire from its central power plant in this city to Jonesboro.

NORTHVILLE, MICH.—The village will be in the market about Sept. 1 for lead-covered cable and conduit for 2,500-volt service. A day service for lamps and motors has been established. Samuel Wilkinson is Supt.

CHICAGO, ILL.—The South Park Commissioners are preparing for the installation of about 75,000 ft. of No. 6, single-conductor lead and paper covered cable, 5,000 ft. of 4-conductor No. 6 lead and paper covered cable and 10,000 ft. of 6-conductor lead.

Martin Schwab, Engr., 161 State St., is receiving estimates on a 1,000-HP. steam electric plant for Bauer & Black, 35 West 25th St.

VANDALIA, ILL.—The citizens have voted to issue $10,000 of bonds for repairs to the municipal electric light plant and extensions to the water-works system.

MARSEILLES, ILL.—The McKinley system will improve and make extensions to the Desplaines River power plant here, purchased from W. D. Boyce. It is estimated that about 4,000 HP. will be developed. Estimated cost, $200,000.

EVANSVILLE, WIS.—Plans are being prepared by the Evansville Electric Light Co. for installing a day electric power service.

FAIRFIELD, IOWA.—Plans are being considered by the City Council for improvements to the municipal electric light plant, including the installation of new equipment. W. L. Loring is City Clk.

BELLE PLAINE, IOWA.—On Aug. 12, the citizens voted in favor of granting a gas franchise. A water gas works will be built at once and about six miles of mains will be laid. Bids will be asked soon. H. R. Mosnat, Belle Plaine, may be addressed.

PRESTON, MINN.—Plans are being prepared for the construction of a hydroelectric power plant here by O. H. Case & Son, of Florence, Minn.

ST. PAUL, MINN.—Preparations are being made for the construction of the power building to be erected on Eighth St., between Wacouta and Sibley Sts. The building will be 300 ft. × 87 ft., seven stories high. Estimated cost of the building and power plant, exclusive of site, about $300,000. Oscar Claussen, of St. Paul, Minn., is Engr.

ROCHESTER, MINN.—The Board of Public Utilities has been instructed to secure estimates and plans for placing all electric wires under ground and erecting ornamental posts for street lamps. The board would like to hear from parties interested in this line of work. John C. Crabb is Secy. Bd.

FERGUS FALLS, MINN.—The City Council has authorized the Water and Light Commission to engage L. P. Wolff, Consulting Engr., of St. Paul, Minn., to make investigations and report on repairs to the old dam.

PRINCETON, MINN.—Plans are being considered for the erection of a storage battery substation for day service and also to carry load from midnight. O. B. Randolph is Supt.

McPHERSON, KAN.—The City Commission has engaged Kelso, Mann & Kelso, Archs., to prepare plans and specifications for the new power-house, 60 × 100 ft., for the electric light plant. Estimated cost, $20,000.

OAKLEY, KAN.—See item under Water Supply—Irrigation.

WICHITA, KAN.—The Arkansas Valley Interurban Ry. Co., at present constructing an electric railway between Wichita and Newton, Kan., 30 miles in length, will erect two substations, which will be equipped with motor-generator sets with a rating of 200 KW. each. The Kansas Gas & Electric Co., of Wichita, will furnish energy at 33,000 volts to operate the system. O. A. Boyle is Vice-Pres. and Gen. Mgr.

BONESTEEL, S. DAK.—The Council has been applied to by E. A. Bullock, Pres., Norfolk Electric Light & Power Co., of Norfolk, Neb., for a franchise to install an electric plant to supply electricity for lamps and motors here.

HIGHMORE, S. DAK.—The city is considering the question of granting a franchise for maintaining an electric lighting system for the city.

BLUNT, S. DAK.—The city is considering the construction of an electric light plant. It is reported that contracts for equipment have been awarded and part of the machinery delivered.

HOT SPRINGS, ARK.—Bids will be received by Major G. D. Deahon, Q. M., U. S. A., until Sept. 10 for furnishing and installing one triple motor-driven pump and two motors, one alternating and one direct current.

HELENA, ARK.—The Helena Gas Co. is contemplaitng enlarging its electric plant and increasing the capacity of its water-gas plant. Bonds for $50,000 may be issued.

LEAGUE CITY, TEX.—The Galveston-Houston Electric Co. has decided to locate its main power plant on Clerk Creek, about one-half mile from here. The power-house will be 70 x 100 ft., steel frame, brick and concrete walls and foundation, about two stories high, the first floor to be a high first floor basement and substructure in which considerable machinery will be installed. Equipment will include three 520-HP. boilers, 1,110 kilo turbine, 500 kilo turbine, and all necessary condensers, water heaters, feed pumps, air compressors, etc. The power will be generated by 2,300 volts and be stepped up to 3,300 volts for transmission to three substations, locations for which have not yet been determined. The substation power will again be stepped down to 2,300 volts, alternating current, and be delivered to motor generators furnishing 600 volts direct current to trolley. Mark Lowd, Houston, Tex., Southwestern Mgr. for Stone & Webster Engineering Corporation, 147 Milk St., Boston, Mass., is in charge.

CLEBURNE, TEX.—The Cleburne Electric & Gas Co., R. B. Stichter, Gen. Mgr., Dallas, Tex., has awarded contract to N. D. McCOY, of Cleburne, for erecting a brick building to be equipped as a power plant. Two 250-HP. engines will be installed.

COLEMAN, TEX.—Preparations are being made for rebuilding the municipal electric light plant. Bonds for $20,000 have been voted. W. Z. Champion is Mgr.

VICTORIA, TEX.—The VICTORIA MFG. CO. has made a contract with this city to install and operate a system of street lighting for a period of ten years, consisting of 150 60-c. p. Tungsten lights and seven 6-ampere arc lights. The lights will be ready for use on Nov. 1.

KINGFISHER, OKLA.—The Water and Light Department is contemplating the installation of a new street lighting system. Arc lamps are now used. It is proposed to use series tungsten or new and improved arc lamps. V. H. Francis is Supt. Municipal Light and Water Plant.

PRYOR CREEK, OKLA.—E. T. Archer, 426 Beals Bldg., Kansas City, Mo., Consulting Engr., is preparing plans for the construction of an electric light and ice plant here, to be owned and operated as a private enterprise. The equipment will include one 50-KW. and one 100-KW. directly-connected alternating-current units, together with a 10-ton ice plant. Bids will be asked soon.

PUEBLO, COLO.—The Pueblo-Rocky Ford Land Co., lately incorporated, proposes to construct and operate electric light and power plants, to build and maintain telegraph and telephone lines, tramways and railroads. P. J. Dugan, W. J. Lester and J. E. Shoemaker are interested.

ELLENSBURG, WASH.—Cluster lights on the north side of Third St., from Main St. to the Northern Pacific Ry. depot will be installed by the city before the completion of work in the paving district. Three light clusters, six to a block, will be used.

OREGON CITY, ORE.—An ordinance has been passed authorizing the City Council to award contract to the PORTLAND RY., LIGHT & POWER CO., to furnish electricity for lighting the streets of the city for a term of five years, beginning Sept. 1, 1910.

ALBANY, ORE.—The Great Western Power Co. has applied to the city for a franchise for the distribution of electricity in large quantities. It is expected that the feed wires erected in Sacramento St., Berkeley, Cal., will be extended to Albany.

THE DALLES, ORE.—The Columbia Power & Light Co., which recently purchased the electrical plant and business of the Wasco Warehouse Milling Co., will spend $60,000 in improving the electric system in Wasco County. The sum of $45,000 will be spent in enlarging and improving the plant at White River Falls, and $15,000 in this city.

KLAMATH FALLS, ORE.—The application filed by W. K. Brown for a water power site on the Klamath River, near here, has been approved by John H. Lewis, State Engr. Estimated cost of developing the power, about $250,000.

CRESCENT, ORE.—Surveys are being made in connection with the construction of an electric light and power plant a short distance north of here, where a company headed by Dr. N. B. Winnard has filed on a power site. It is proposed to erect a dam in the canyon where the head of the Deschutes River narrows to about 60 ft. It is estimated that about 5,000 HP. can be developed.

PORTLAND, ORE.—The Pacific Power & Light Co., of Augusta, Me., has filed articles of incorporation to do business in the state of Oregon. The concern is capitalized at $7,500,000 and its principal place of business in this state will be Portland.

PORTLAND, ORE.—Negotiations have been completed whereby a number of electric, gas and power plants in Oregon, Washington and Idaho have been merged under the name of the Pacific Power & Light Co., of Portland, capitalized at $7,500,000. The properties consolidated include the former holdings of the Northwest Corporation, part of the holdings of the Strahorn interests in the Yakima Valley and the power and lighting system formerly owned by the Wasco Warehouse & Milling Co., of The Dalles. To bring the numerous plants and public service systems under the control of the Pacific Power & Light Co., temporary corporations were organized, including the Yakima-Pasco Power Co., the Columbia Power & Light Co., the Astoria Electric Co., and the Walla Walla Valley Ry. Co., all of which have now deeded all their holdings to the Pacific Power & Light Co., and will go out of existence, with the exception of the Walla Walla Valley Ry. Co., which will be continued as a subsidiary concern. The Pacific Power & Light Co. has also taken over the hydroelectric generating plants on the Walla Walla River, one on the White River in Oregon, near its confluence with the Deschutes River and one on the Uaches River, near North Yakima, Wash. The combined generating capacity of the three plants is 15,000 HP., which, it is reported, will be increased. The company has options on several other properties in the Northwest.

SAN ANDREAS, CAL.—The General Electric Power Co. are preparing for the development of the power sites and water rights owned by the company. It is estimated that 60,000 HP. can be developed. Le Grand Brown, of New York, is Consulting Engr.

HEMET, CAL.—Preparations are being made for the construction of a large reservoir and hydroelectric power plant to supply electricity for the proposed electric railway and for the city.

SAN DIEGO, CAL.—The San Diego Consolidated Gas & Electric Co. has announced the purchase of an entire block of ground, bounded by Tenth, Eleventh, L and M Sts., on which it proposes to erect a large gas holder or tank. Purifying plant will also occupy ground. The company plans to expend $300,000 on the improvements.

BAKERSFIELD, CAL.—A reinforced concrete building to house the new power plant of the Power, Transit & Light Co. will be erected at once. 2,000-HP. steam generating plant to be installed.

LOS ANGELES, CAL.—The BAKER IRON WORKS, 932 North Broadway, Los Angeles, has been awarded contract to erect the steel frame for a generator building over oil and gas generators in the plant of the Los Angeles Gas & Electric Corporation at Center and Aliso Sts., at $6,288.

HEROULT, CAL.—The Noble Electric Steel Co. is considering the installation of an additional furnace in its plant, electricity for operating which is furnished by the Northern California Power Co. C. B. Morgan is Secy.; H. H. Noble is Pres. Northern California Power Co.

OROVILLE, CAL.—Notice of application of 2,000 cu. ins. of water in Coldwater Creek, below Buck's ranch, Plumas County, has been filed by John A. Hall, of Plumas County, and George H. Sparks, of Oroville. The development of power to generate electricity is proposed.

BERKELEY, CAL.—University Ave. business men, from Oxford St. to Shattuck Ave., have submitted a proposition to the City Council offering to pay for the erection of electroliers in that section if the city will furnish the electricity.

The City Council has granted to the Great Western Power Co. a franchise for 50 years to supply electricity for lamps, heat and motors here. The terms provide that for the third ten years the company pay the city 2% of its gross receipts during the first ten years, 4% for the third ten years and 5% for the remainder. H. H. Sinclair is Gen. Mgr., San Francisco.

SEAFORTH, ONT.—The two by-laws authorizing the town corporation to contract for electric power and install distributing system were voted on Aug. 8.

YORKTON, SASK.—The ratepayers passed the by-law appropriating $35,000 for the installation of an electric light plant.

SASKATOON, SASK.—Contract for a 250-HP. water-tube boiler for the municipal electric plant has been awarded to the ROBB ENGINEERING CO., of Amherst, N. S., at $4,200.

## BRIDGES.

(*Denotes that this work is advertised in Engineering News.)

FALL RIVER, MASS.—Surveys are being made by the New York, New Haven & Hartford R. R. Co. for a new double track bridge here to replace its present single-track bridge. Edward Gagel is Ch. Engr., New Haven.

The city and the New York, New Haven & Hartford R. R. Co. will build jointly a bridge over the railroad tracks at South Park, probably of concrete. P. D. Borden is City Engr.

NEW YORK, N. Y.—The VULCAN RAIL & CONSTRUCTION CO., 175 North Ninth St., Brooklyn, has been awarded contract for constructing stairways and ladders in the main tower of the Williamsburg Bridge at $4,108. Bids were opened on Aug. 11. Kingsley L. Martin is Comr. Bridges.

ROCHESTER, N. Y.—WHITMORE, RAUBER & VICINUS, 279 South Ave., Rochester, were awarded contract on Aug. 11 for constructing the Central Ave. bridge at $151,017. Other bidders were: Thomas Holohan, $157,655; F. A. Brotsch & Son, $169,470; Brayer & Albough, $182,868.

*PATERSON, N. J.—Bids will be received by the Board of Chosen Freeholders of Passaic County until 2 p. m., Aug. 31, at Paterson, for building a reinforced-concrete arch bridge over the Wanaque River, at Pompton Lakes, on the Paterson and Hamburgh Tunrpike, near McDavitt's. Plans and specifications may be seen at the office of the County Engineer, Court House, Paterson. George W. Botbyl is Clk.

ALTOONA, PA.—The County Commissioners of Altoona have awarded contract for constructing a concrete bridge over Bald Eagle Creek, to W. H. HERR, of Altoona, at $8,300.

SUNBURY, PA.—Contract for constructing a bridge between Sunbury and Packers Island has been awarded by the County Commissioners of Northumberland County to the YORK BRIDGE CO., of York, Pa., at $84,000 for a structure 300 ft. long containing six spans, or $84,500 for four spans.

HARRISBURG, PA.—Bids will be received until 2 p. m., Sept. 16, by Joseph W. Hunter, State Highway Comr. at Harrisburg, for constructing three bridges on the National Road, Washington County, as follows: Two cement masonry bridges at Stations 918 + 11 and 898 + 00, respectively, and a reinforced-concrete bridge at Station 927 + 80.

JOHNSTOWN, PA.—The City Councils have passed an ordinance appropriating $55,000 for the new bridges to cross Conemaugh and Stony Creek. The former structure will connect Minersville and Cambria City and the latter the Fourth and Fifth Wards.

McKEES ROCKS, PA.—The Commissioners of Stowe Township have awarded contract to the AMERICAN BRIDGE CO., 30 Church St., N. Y., for the superstructure and to FRANK BRYAN for the excavation and abutments of the bridge to be constructed from Island Ave. to Ohio St. Estimated cost, about $20,000.

ASHLAND, PA.—Bids will be received until 10 a. m., Aug. 29, by Chas. T. Straughan, County Controller, Pottsville, for the construction of a new steel bridge over Mahonoy Creek on South Third St., Borough of Ashland.

PLYMOUTH, PA.—Revised plans and specifications for the new county bridge to be constructed across the river between Plymouth and Breslau have been completed. The plans provide for a substantial structure which it is estimated will cost between $200,000 and $250,000 complete. The driveway will be of concrete with a brick surface and the structure will be heavy enough to carry a railroad for trolley cars. Bids for the erection of the bridge will be asked soon.

SLATINGTON, PA.—Bids will be received by the County Commissioners of Lehigh County at Allentown until 10 a. m., Sept. 1, for rebuilding the Walnut St. bridge at Slatington.

BALTIMORE, MD.—The Board of Awards has awarded contract to C. B. CLARKE & CO., of Asheville, N. C., for constructing concrete bridge across Stony Run and Maryland & Pennsylvania R. R. and under Huntingdon Ave. viaduct, span 146 ft., keystone 50 ft. above level of stream, roadway 25 ft. wide, with sidewalk of 7½ ft. on each side at $47,720. This bridge is in connection with the proposed construction of a boulevard to connect Wyman's and Druid Hill Parks.

WARM SPRINGS, VA.—Bids are asked by the Virginia State Highway Commission, at the office of the Clerk at Warm Springs, until noon, Sept. 1, for the construction of two bridges, one over Cowpasture River at Page's Ford, and one over the same river at Gale's Ford. P. St. J. Wilson is State Highway Comr., Richmond.

CLARKSBURG, W. VA.—The Harrison County Court on Aug. 13 awarded contract for the erection of a steel bridge over Elk Creek to the OWEGO BRIDGE CO., Owego, N. Y., at $28,623. Other bidders were: Penn Bridge Co., $35,000; Ferris Bridge Co., $30,000; F. J. P. Brackett Bridge Co., $32,000; American Bridge Co., $32,580; Canton Bridge Co., $29,995.

CHARLOTTE, N. C.—The Mecklenburg County Commissioners will construct a bridge over Cathey's Creek.

ARAGON, GA.—Bids are asked by Polk County until Aug. 29 for constructing a steel bridge over Euharlee Creek. J. L. Moore is Chn. County Comrs., Cedartown, Ga.

MERIDIAN, MISS.—Lauderdale County will construct a wooden bridge across Big Reed Creek on the Lauderdale and Enondale Road. Bids are asked until Sept. 5. W. R. Pistole is Chancery Clk.

BENTON, TENN.—The County Commissioners of Benton County awarded contract on Aug. 6 to the JOLIET BRIDGE CO., of Joliet, Ill., for the construction of a steel bridge over the Conasauga River at Conasauga at $43,250.

VISALIA, KY.—The construction of a bridge over Licking River connecting Campbell and Kenton Counties at Visalia is under consideration. Estimated cost, $26,000.

ASHLAND, OHIO.—Bids will be received by the County Commissioners until Sept. 7 for two 60-ft. span center to center steel truss bridges with concrete floor complete and two new substructures of stone and concrete footers. Stone work aggregates 150 perch. T. Brindle is County Surv.

HURON, OHIO.—The following bids were opened by the Commissioners of Erie County at Sandusky for the construction of a lift bridge at Van Rensselaer St., over the Huron River, at Huron, bridge including approach spans, to be 250 ft.; width of roadway, 20 ft.; width of sidewalk, 6 ft.; right-of-way for electric railway track, 11 ft.: Substructure—WILLIAM M. MORTIMER, $23,853 (awarded contract); Truitt & Rikeman, $27,959; Scherzer Rolling Lift Bridge Co., $29,064; American Construction Co., $30,588; Great Lakes Dredge & Dock Co., $34,081; Modern Construction Co., $35,835. Superstructure—SCHERZER ROLLING LIFT BRIDGE CO., Monadnock Bldg., Chicago, Ill., $32,765, for double leaf deck Scherzer rolling lift, not including royalty, (awarded contract); Modern Construction Co., $38,200, for a Strauss type single leaf trunnion bascule.

NAPOLEON, OHIO.—Bids will be received until Aug. 26 by G. E. Rafferty, Village Clk., for constructing a bridge over Oberhaus Creek on Woodlawn Ave.

LISBON, OHIO.—Bids will be received at the office of the County Auditor at Lisbon, Ohio, until noon, Sept. 19, for furnishing labor and material necessary to plank Canton bridge at west end of Walnut St., Lisbon, with No. 1 white oak, 3 ins. in thickness and 20 ft. long. C. H. Cobourn is Clk.

DELAWARE, OHIO.—Bids will be received by W. H. Bodurtha, County Audr., Delaware, until noon, Sept. 6, for the labor and material necessary to build the Utley bridge in Trenton Township. The plans and specifications for this work will be on file in the office of the County Audr.

CUYAHOGA FALLS, OHIO.—Bids are asked until 11 a. m., Sept. 2, by the County Commissioners for repairing the Portage St. bridge over the Cuyahoga River here. Charles L. Wirth is Clk.

COLUMBUS, OHIO.—Bids will be received by the Board of County Commissioners of Franklin County until Sept. 14 for the necessary labor and materials to encase the abutments of the Dublin bridge over the Scioto River.

STEUBENVILLE, OHIO.—Bids will be received by the County Commissioners until Sept. 3 for the necessary labor and materials to construct a bridge at Somers, as per the plans and specifications on file in the office of the County Commissioners, E. K. Lott, Clk.

CIRCLEVILLE, OHIO.—The Board of County Commissioners has awarded contract for the substructure of the Darby bridge to REICHELDERFER BROS. at $6,210, and the superstructure to the ORGONIA BRIDGE CO. at $9,756.

SOUTH BEND, IND.—The County Commissioners will improve the Colfax and La Salle Ave. bridges at a cost of $20,000.

AUBURN, IND.—The Commissioners of Dekalb County are preparing to ask for bids for the construction of a bridge over the Moore Valley drain.

INDIANA.—Bids for the construction of bridges in Indiana will be received as follows

Sept. 7, at noon, by the Commissioners of Lake County at Crown Point, Ind., for the construction of a wooden bridge over Deep River. C. A. Johnson, Audr.

Sept. 8, at 2 p. m., by Commissioners of Boone County at Lebanon, Ind., for the construction of six bridges. B. F. Herdrich is County Audr.

Sept. 8, at 1 p. m., by Commissioners of Spencer County at Rockport, Ind., for the construction of seven bridges. John T. White is County Audr.

KALAMAZOO, MICH.—The City Engineer has estimated the cost of constructing new bridges across the river at Gull and Mill Sts. at $38,000.

FLINT, MICH.—The City Engineer has been instructed to prepare plans and estimates for the construction of a bridge across the Flint River to Moon Island.

ROCKFORD, ILL.—The Board of Aldermen has condemned the Winnebago St. viaduct over the Chicago, Burlington & Quincy Ry. and the Illinois Central R. R. here. Action will soon be taken toward the construction of a new viaduct.

ALTON, ILL.—The Supervisor and Highway Commissioners of Godfrey Township have received from the State Highway Commissioner plans and estimates for about ten concrete bridges which will be built over streams in the township before winter. Estimated cost, $5,000.

MILWAUKEE, WIS.—The RATH CONSTRUCTION CO., of Milwaukee, has been awarded contract for building the new Georgia Ave. viaduct.

DES MOINES, IOWA.—The following bids were opened on Aug. 10 by the City Council for constructing the 6-span concrete bridge over the Des Moines River on Walnut St., to have a roadway 58½ ft. wide, two 12-ft. sidewalks and each span to be 68 ft. clear: John Wheeler Construction Co., Geneva, Ill., $169,661; Cedar Rapids Bridge Co., Cedar Rapids, $175,000; J. C. Mardis Co., Des Moines, $195,475 and J. W. Turner Improvement Co., Des Moines, $197,000.

BISMARCK, N. DAK.—Bids will be received until Sept. 7 by I. W. Healy, County Audr., for constructing two steel bridges.

KANSAS CITY, MO.—Bids will be received until Aug. 26 by the County Court of Jackson County, at Kansas City, for constructing abutments and superstructure of a 20 x 16-ft. bridge on the Buckner and Levacy Rock Road, between Sections 13 and 24, Township 50, R. 30, and keeping it in repair for four years. Rowland T. Proctor is County Surv. and Highway Engr.

MARLIN, TEX.—Falls County has voted $18,000 of bonds to reconstruct the Highbank bridge over the Brazos River.

WACO, TEX.—The city will construct a 54-ft. span steel girder bridge and abutments, 22-ft. span steel I-beam bridge and abutment, 20-ft. span reinforced-concrete culvert, 7-ft. span reinforced-concrete culvert. P. A. Gorman is Comr.

GONZALES, TEX.—The Gonzales County Commissioners will construct steel bridge across the Guadalupe River at Hamon.

FREDERICK, OKLA.—Bids will be received until Sept. 7 by John B. Darden, County Clk., Frederick, for the construction of 14 steel bridges in the county.

STILLWATER, OKLA.—Bids will be received at the office of the County Clerk, at Stillwater, until 5 p. m., Sept. 6, for all material, construction and erection of both the superstructure and substructure for one steel bridge across the Cimarron River on or near the section line between Section 9 and 10, Township 18, Range 5 East, in Payne County.

LIGONIER, WASH.—The City Council has adopted a resolution providing for the construction of a temporary combination street car, wagon and foot bridge at Stone Ave. across Lake Union. Estimated cost, $30,000. The bridge is to start at Stone Ave. and extend southwestward across the lake to Westlake Ave.

SOUTH PASADENA, CAL.—The City Engineer has drawn plans and specifications for approach in this city of the proposed new Arroyo bridge, which includes moving of Salt Lake R. R. tracks, levelling of grades, etc. Estimated cost, $5,000.

LOS ANGELES, CAL.—The Board of Supervisors will receive bids until 2 p. m., Aug. 29, for furnishing all labor and materials necessary for the construction of a pile trestle bridge across New San Gabriel River on Rivera and Los Nietos Road in Los Nietos Road District. C. G. Keyes is County Clk.

SAN DIEGO, CAL.—See item under Water Supply—Irrigation.

SAN JOSE, CAL.—Plans are being prepared by the County Surveyor, Hall of Records Bldg. for a number of reinforced-concrete bridges, culverts and viaducts to be constructed in Santa Clara County. Bids wil be asked as fast as plans and specifications are completed. Estimated cost, from $3,000 to $25,000 each.

## BUILDINGS.

(*Denotes that this work is advertised in Engineering News.)

BROOKLINE, MASS.—Bids have been received as follows for the erection of the proposed 8-room primary school on Westbourne St.: The Norcross Bros. Co., Lowell, Mass., $63,371; P. J. Cantwell, $59,963; John W. Duff, $58,710; Vroom Bros., $53,978; McGahey & O'Connor, $53,900; Carroll Construction Co., $52,975; A. Vernerin & Co., $52,874. Kilham & Hopkins, 9 Park St., Boston, are Archs.

LOWELL, MASS.—The general contract for the addition to the Harrington building in Central St. has been let to HOOPER-WATERS CO., of Boston, and work will be commenced at once. The old Gerrish building will be demolished and a modern four-story structure will replace it. The new building will be connected with the wing of the Harrington building on Prescott St., making a double deck store with entrances from both streets, and a large light well in the center to throw light on both floors of the store by means of a center balcony opening. The basement will be continued under the sidewalk on both streets with light lenses in each sidewalk and in the entrance walks which will lead to the store on both Central and Prescott Sts. by a gradual incline without any step. The building on Prescott St. will be extended over the old alley which now leads to the rear of the Gerrish building. A granolithic sidewalk with light lenses will be built along the entire front of the building on Prescott St., running by the store fronts of the Electric Light Co. and the Walkover shoe shop. The show windows of the store on both streets will be carried up two stories, and on the Central St. front the upper display windows will be dropped 3 ft. below the floor level. There will be four new offices on the third flor, and the fourth floor will be added to Harrington hall, which will be improved. The architecture of the new addition will differ from that of the Harrington building and will be faced with a non-porous Roman brick of a gray color to be furnished by DANIEL T. SULLIVAN, of this city. The following sub-contracts have been awarded: Steam piping and enlargement of present heating boilers by WELCH BROS.; plumbing and sheet metal work by T. COSTELLO & CO.; sash and doors by PRATT & FORREST; plate glass and prism lights by C. B. COBURN CO.; electric wiring by TUCKE & PARKER; gas piping by CURTIN & SPILLANE. Other sub-contracts will be awarded in a few days. The entire work will be done under the supervision of the architect, C. H. Blackall, 20 Beacon St., Boston.

BOSTON, MASS.—Plans for a theater on Eliot St. are being prepared by Clarence H. Blackall, Arch., 20 Beacon St., Boston. The building will be fireproof throughout and of steel, granite and limestone construction on a site 102 × 150 ft. The theater will be known as the Liebler Theater, and has been leased for a term of 20 years, upon its completion, to Liebler & Co., Fifth Ave. and 38th St., New York. Estimated cost, $600,000.

ATTLEBORO, MASS.—The court-house plans that were accepted recently by the County Commissioners and the officials of the Fourth District Court have been made public. The building will be located on a lot at the corner of North Main and Mechanics Sts. and will be approximately 100 × 80 ft. at its extreme depth. It will be about 60 ft. away from the street. There will be a driveway from Mechanics St. to Hayward St. and a central entrance from North Main St. The structure will be two stories, of brick, with either limestone or granite trimmings, and foundation of granite. There will be a main building with two wings which will protrude on either side. An entrance in the rear will be for the prisoners. The main structure will have terraza flooring and the courtroom will have either maple or birch. The building will be practically fireproof. There will be intercommunicating telephones throughout. All the suites will be provided with modern improvements. The total cost will be $60,000, without the furnishings or architects' fees. The architects are the Brigham, Coveney & Bisby Co., 184 Boylston St., Boston.

WILLIAMSTOWN MASS.—The contract for building an assembly hall at Williams College, Williamstown, has been awarded to the CENTRAL BUILDING CO., Worcester. It will be two stories high, with a basement 80 × 185 ft. The construction will be brick and limestone, with concrete foundations. Cram, Goodhue & Ferguson, 15 Beacon St., Boston, are the Archs. Estimated cost, $250,000.

LAWRENCE, MASS.—Plans have been completed and bids will be asked for, soon, for the construction of a Young Men's Christian Association building in Lawrence. It will be built of dark red Harvard brick, set in white mortar, with white limestone trimmings. The main structure will be four stories in height, with the gymnasium 2½ stories. The dimensions are approximately 80 × 146 ft. The main entrance will be on the Lawrence St. side with an entrance for the boys, and those who use the dormitories on the Valley St. side. The building will cost, exclusive of furnishings, $90,000.

CHESHIRE, CONN.—Bids will be received by Charles Hopkins Clark, Treasurer of the State Reformatory Commission, until noon, Sept. 9, for the construction of the State Reformatory at Cheshire. The bids may be submitted either for the work complete or for the various kinds of work. Plans may be examined at the office of the Architects, 26 State St., Hartford.

STAMFORD, CONN.—George B. Post & Sons, 341 Fifth Ave., New York, Archs., have been commissioned to prepare plans for the Stamford Hospital. The group of buildings will comprise a main building, the wards for which will accommodate 100 patients, with 35 private rooms; quarters for the nurses, power-house and contagious ward, and the estimated cost is figured at $250,000. The Building Committee consists of E. L. Scofield, Pres. of the association; Dr. Samuel Pierson, W. D. Dackam, Edward Y. Weber, William H. Judd and Judge Frederick C. Taylor.

BUFFALO, N. Y.—We are officially advised that G. Morton Wolfe, Arch., 845 Ellicott Sq., Buffalo, has completed plans for a 2-story and basement warehouse and office building, 45 × 60 ft., of brick and steel, to be erected on Chandler St., near Military Road, by the Keystone Mfg. Co. Charles A. Haist, Pres., 51 Chandler St. The contracts have been let as follows: Masonry, METZ BROS., 1295 Fillmore Ave.; carpentry, to E. R. HAIST. The building will cost $150,000.

BUFFALO, N. Y.—Washington B. French has obtained a permit to build an apartment house. It will be erected at 1141 Delaware Ave., 60 ft. south of Ferry St. It will be four stories high and fireproof. The estimated cost of the building is $60,000.

Howard L. Beck, City Arch., is about to begin the preparation of plans for a school building to replace School No. 32, on Cedar St., near William St. The school house will contain 30 rooms. The cost is estimated at $150,000. Construction will be started next spring. Mr. Beck is preparing plans for an addition to School No. 57 in Playter St., corner of Sears St. Sixteen class rooms will be added, costing $80,000.

BUFFALO, N. Y.—Henry L. Spann, Arch., 38 Pascal St., has completed plans for the Plaza Theatre building, 60 × 106 ft., at the northwest corner of William and Monroe Sts. The building will be of brick and steel construction and will contain one story and a basement. Estimated cost, $40,000.

NEW YORK, N. Y.—We are officially advised that Henry Clews, 15 Broad St., will erect an artist's studio building, 202 × 152 ft., to cover the block front on Fifth Ave., between 103d and 104th Sts., extending back 150 ft. in both streets. The Fifth Ave. facade will contain the main entrance, and a large central court laid out in flower beds and shrubbery. As planned, the building will be three stories high. It will be constructed of steel, concrete and asbestos and will cost $150,000. H. G. Knapp is Arch., 5 East 42d St.

Plans have been filed for a 12-story fireproof elevator duplex apartment house to be erected at the southeast corner of Park Ave. and 60th St., for the Park Avenue Holding Co., William A. Hayes, Pres., at a cost of $400,000. The building will have a frontage of 90.5 ft. on the avenue by 60 ft. in the street, with accommodations for 19 families. The main entrance will be porticoed and ornamented with large Ionic columns. There will be separate apartments in the basement, with a large living room and parlor for servants.

*NEW YORK, N. Y.—The Vadrick Realty Co. has filed plans for a 12-story brick and stone apartment house to be erected at 150 to 158 West 79th St., on a plot 83.8 × 100 ft. The building will cost $375,000, according to the estimate of Schwartz & Gross, Archs., 347 Fifth Ave. The plot is 233.1 ft. east of Amsterdam Ave.

The Executive Committee of the Board of Education held an adjourned meeting in New York recently at which the contract for the erection of Public School No. 165, Lott and Hopkinson Aves. and Amboy St., Brooklyn was awarded to JAMES MAC ARTHUR, 22 Ormond Pl., Brooklyn, for the sum of $219,447. There were fourteen bidders, running from MacArthur's figures up to $236,297, those of the highest.

Casey-O'Brien's contract for making alterations and repairs in Public Schools Nos. 40, 65, 73, 76, 108 and 113, Brooklyn, was declared forfeited. These contractors had been ordered to begin work on Aug. 5, but had failed to move. It was pointed out by the committee on buildings that most of the contractors on school alterations and repairs had gone to work just as soon as the schools closed in July, and the work in most instances will be done before the beginning of the fall term. The repairs on the above schools will either have to go over for another year, or must be done to the inconvenience and annoyance of the schools while in session.

Plans have been filed for a 12-sory brick loft building, 60 × 88.9 ft., on East 36th St., for the Fackner-Coates Construction Co., 286 Fifth Ave. New York. The building will cost $175,000.

An 8-story brick apartment house is to be constructed at East 74th St. and West End Ave. for the Davis Building Co., 312 West 109th St. W. L. Rouse and L. A. Goldstone, 12 West 32d St., are the Archs. Estimated cost, $170,000.

NEW YORK, N. Y.—A 6-story clubhouse for women, to be known as the Junior League Residential Club, is to be erected by the City and Suburban Homes Co. at the corner of 78th and Exterior Sts., according to plans recently filed. It will have a facade of brick, with trimmings of limestone, with the main entrance on Exterior St. It is expected that the building will be ready for occupancy within six months and accommodate 350 women. In the basement there will be a large dining room for members, servants' dining room and quarters, kitchen and accessories and a trunk and baggage room. The first floor will contain a large reception and entertainment hall, reading room, small reception room, doctor's office, a room for typewriting, a sewing and pressing room and 20 small reception rooms. On the second floor will be 46 private reception rooms and a parlor. On the third, fourth, fifth and sixth floors will be 51 reception rooms, respectively, and eleven on the roof, making a total of 281 small reception rooms. On the roof there wil be a series of loggie, in addition to the reception rooms. A large open interior court will run through the center of the building, and there will be one elevator. The cost of this clubhouse, as estimated by P. H. Ohm, Arch., is $90,000.

Plans have been filed for an 11-story side extension to the 11-story store of Oppenheim, Collins & Co., on the north side of 34th St., east of Sixth Ave., and the south side of 35th St., east of Sixth Ave., at a cost of $300,000. The new building will be of brick and limestone, with a frontage of 48 ft. on 34th St. and an additional frontage of 20 ft. on 65th St. The addition will contain a store from the first to the fourth story, and offices above. Buchman & Fox, 11 East 59th St., New York, are the Archs.

THOMAS REILLY, 1616 Thompson St., Philadelphia, has been awarded the contract for the erection of a church and school building for the St. Johns Catholic Church, Brooklyn. It will be fireproof with exteriors of Indiana limestone and will cost $370,000.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt., School Bldgs., until 3 p. m., Sept. 6, for the general construction, etc., of additions to and alterations in Public School 40, on Prospect Ave., Jennings St. and Ritter Pl., Boro. The Bronx, and for alterations, repairs, etc., at Public School 51, 519 West 44th St., Boro. Manhattan.

JAMESTOWN, N. Y.—Contract for the foundation and the pier work of the Hotel Sherman at Jamestown, has been awarded to the BUFFALO STEEL CO., of Tonawanda. Cost $350,000.

UTICA, N. Y.—The Mohawk Valley Cap Co. will erect a storehouse soon which will have a capacity of 4,000 bales of cotton. The building will be 100 ft. long and 125 ft. wide, three stories high, and will be one block distant from the main mill of the company. A New York Central track passes the site of the new storehouse. The present storage room of the company will be given over to the manufacture of yarn upon the completion of the new structure.

MORRISVILLE, N. Y.—Bids are asked by John T. Roberts, Pres., Bd. of Trustees, Morrisville, until 10.30 a. m., Sept. 6, for repairs and alterations in Bicknell Hall, Madison Hall and director's residence, including construction, heating, plumbing, electric wiring and fixtures at the New York State School of Agriculture at Morrisville. F. B. Ware is State Arch.

GREENSBURG, PA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., until 3 p. m., Sept. 26, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. post-office, at Greensburg, Pa.

PHILADELPHIA, PA.—Tracts measuring 175 × 175 ft. and 180 × 180 ft. on both sides of Harvey st, between Wayne av, and Green st, Germantown, have been bought by Frank B. Thompson for $30,000. He will erect immediately twelve semi-detached houses, to cost $100,000.

Horace Trumbauer, Arch., Land Title Bldg., has completed plans for the erection of a $50,000 house on the south side of Walnut St., east of 39th St. It will be of limestone, three stories high, 52 × 64 ft.

The Penn Building Co., 54th and Walnut Sts., will erect a group of flat buildings at 51st and Walnut Sts., at a cost of $100,000.

PHILADELPHIA, PA.—Ground has been broken for the erection of three 4-story apartment houses of brick and stone to cost $100,000 at the southwest corner of 51st and Walnut Sts., west side of 51st St.; 58 ft. south of Walnut St., and northwest corner of 51st and Chancellor Sts. for Barnett Cohen. The Plans by Anderson & Haupt provide for a building at the southwest corner of 51st and Walnut Sts., 58 × 88 ft., containing twelve apartments, and costing $40,000; west side of 51st St. south of Walnut St., 52 × 60 ft., cost $30,000; and northwest corner of 51st and Chancellor Sts., 44.10 × 60 ft., containing eight apartments, costing $30,000. The PENN BUILDING CO., 54th and Walnut Sts., has the contract.

PHILADELPHIA, PA.—We are advised that the PENN BUILDING CO., 5202 Market St., Philadelphia, has the contract to erect a 4-story and basement apartment house at the southwest corner of 51st and Walnut Sts. The building will be of stone, brick and terra cotta, 190 × 90 ft., and will contain 24 six and seven-room suites each with a bath. The cost will be about $100,000. Sub-contracts will be let shortly. Anderson & Haupt, Drexel Bldg., Philadelphia, are the Archs. Noted on Aug. 18.

EDWARD FAY & SON, 1527 Ranstead St., Philadelphia, have the contract to erect five 3-story store and apartment houses at the intersection of 60th and Haverford Sts. and Girard Ave., for William Thalhafer, at a cost of $50,000.

JAMES G. DOAK & CO., 1426 Chestnut St., Philadelphia, has been awarded a contract to build the St. Charles Hotel which will cost $700,000.

CRESSON, PA.—ELLIOTT & WINCHELL, Contractors, Clarksburg, W. Va., have received the contract for the erection of the Pennsylvania State Tuberculosis Sanitorium to be located at Cresson. The JOHN O'HARE CO., Clarksburg, was awarded the plumbing contract. The building when completed will cost about $200,000.

PITTSBURG, PA.—HOWARD HAGER & CO., 6101 Penn Ave., have been awarded the contract for constructing a stone church on Bayard and Bellefield Aves. for the First Baptist Congregation, to cost $200,000. Plans were prepared by Cram, Goodhue & Ferguson, 170 Fifth Ave., New York.

PITTSBURG, PA.—D. Rosenthal, of the Globe Furniture Co., 806 Penn Ave., has bought several old brick dwellings and a lot at 1315 Penn Ave. He will tear down the buildings and erect a fireproof warehouse costing about $50,000. The building will be of steel and reinforced concrete, six stories high, and is to be ready for occupancy May 1, 1911.

W. J. Carpenter, 6024 Penn Ave., is engaged on plans for a stone residence to be built for John D. Bindley on Fifth Ave. and St. James St., at an estimated cost of $60,000.

Jacob L. Kendall, who has acquired the Buchanan acreage in Woodland Road, is having plans drawn for a residence to cost $100,000. Janssen & Abbott, Renshaw Bldg., are Archs.

E. F. Rusch, who recently bought property on Sidney St., between South 20th and 21st Sts., is having plans drawn by Dean & Strophlet, Archs., Fitzsimmons Bldg., for a brick and stone warehouse and storage building to cost $100,000.

JOHNSTOWN, PA.—Mowbray & Uffinger, Archs., 56 Liberty St., New York, N. Y., are preparing plans for a building for the United States National Bank, Johnstown. The exterior will be of white marble. John H. Waters is Pres.

PLAINS, PA.—Bids are asked by the School Board of the Township of Plains, until noon, Aug. 31, for constructing a 14-room school. John F. Kropp is Secy.; Owen McGlynn, Simon Long Bldg., Wilkes-Barre, Pa., is Arch.

WILKES-BARRE, PA.—A 4-story brick building with apartments and a store on the ground floor is to be erected at a cost of about $40,000 by Robert T. Pettebone, at 72 North Main St.

HAZLETON, PA.—THOMAS REILLY has a contract from Wilson, Harris & Richards, Archs., Drexel Bldg., for a bank building, 22 × 150 ft., for the Hazleton National Bank. The cost will be $50,000.

The plans for the $200,000 insane asylum to be erected at Laurytown by the Middle Coal Field Poor District, comprising the lower end of Luzerne and the upper part of Carbon Counties, have been prepared and sent to the State Board of Charities at Harrisburg for approval. This is necessary before the directors can do anything further.

CARBONDALE, PA.—Bids were received as follows on Aug. 22, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Carbondale: J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, Pa., $62,800; William H. Fissell & Co., 1133 Broadway, New York, $67,000; West Chester Engineering Co., New York, $59,740; M. P. Wells, Witherspoon Bldg., Philadelphia, Pa., $66,619; William Werner, 657 Vanderbilt Ave., Brooklyn, N. Y., $68,847.

BALTIMORE, MD.—Plans and specifications have been finished by E. H. Glidden and Clyde N. Friz, 16 St. Paul St., for the proposed 2-story public school building at William St. and Warren Ave., to cost $115,000. Bids will be asked for soon. The building will contain 24 rooms and will be of brick with a slate roof and heating, plumbing and concrete work.

BALTIMORE, MD.—The ENGINEERING CONTRACTING CO., 502 St. Paul St., Baltimore, has the contract for erecting an addition to the store building of Albert Brager, at Eutaw and Saratoga Sts. The addition will be of brick, five stories and basement and will be 92 × 46 ft. Cost, $56,000.

CUMBERLAND MD.—HOLMBEE & LAFFERTY, Clarksburg, W. Va., have been awarded the contract for the erection of the city hall at Cumberland at $75,000. The building will be of marble and stone, 70 × 70 ft., two stories in height and of classical design, surmounted by a dome.

WASHINGTON, D. C.—York & Sawyer, Archs., 156 Fifth Ave., New York, N. Y., have been commissioned to prepare plans for alterations to the Treasury Building at Washington, to cost $180,000. Its principal features will be the elimination of the exterior granite entrance steps on the 15th St. side of the building, placing in their stead several entrances from the sidewalk, installing passenger elevators directly within; establishing locker-rooms for clerks; locating all the money handling divisions on the ground floor; arranging for the shipping of supplies from the sunken courtyard on the

east side of the building; setting in frieze windows on the third floor to make it more available for office purposes, and generally to readjust the bureaus and divisions with respect to their convenient interrelations. James Knox Taylor is Superv. Arch., Treasury Dept., Washington.

FAIRMONT, W. VA.—The plans for a new city building are being worked out by Walter Eliason. The work is being done under the direction of the Fire Committee. By the plans, a 2-story building is to be erected on the city property on Main St. It will contain the city offices and the city fire station.

FAIRMONT, W. VA.—HOLBERT & SPEDDEN, Fairmont, have been awarded the contract for the erection of the Methodist Episcopal church in this city, at approximately $75,000.

WHEELING, W. VA.—The Dollar Savings & Trust Co., of this city, has awarded the contract for the erection of the front facade of their building to EDWARD C. KREUTZER, of Wheeling. The entire front is to be of white granite from the North Jay, Me., quarries. The building will be three stories high and will cost $200,000.

CLARKSBURG, W. VA.—Calvin P. Howell has bought the John A. Batten property at 108 Pike St. and intends to erect an 8-story business block.

ROME, GA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Rome to D. J. PHIPPS, Newport News, Va., at $43,946.

JACKSONVILLE, FLA.—An application was recently filed by Morocco Temple for a permit to erect the Shriners' proposed building at the corner of Newnan and Monroe Sts. The structure is to be 85 × 124 ft., and will represent an expenditure of $75,000.

BIRMINGHAM, ALA.—At a recent meeting of the Board of Education the contract for the school to be erected at East Birmingham was let to the ANDERSON CONTRACTING CO., for $52,000.

NASHVILLE, TENN.—Bids will be received until noon, Aug. 29, at the office of Gov. M. R. Patterson, Chn. State Bd. of Education, Nashville, for the following schools, six buildings in all. A school building and dormitory each at Memphis, Murfreesboro and Johnson City. A total of $830,000 has been appropriated for the buildings with an additional $150,000 for their maintenance. Of this amount Memphis appropriated a total of $400,000. The plans and specifications for the Memphis school, with duplicate plans and specifications for the other two schools, were placed on file in the office of B. C. Alsup & Co., Archs., Randolph Bldg., recently. By an interchange of duplicates, contractors may bid on all three schools by calling at the office of any one of the architects. The other architects are Adams & Alsup, Chattanooga; C. K. Colley, Nashville, and Baumann Bros., Knoxville.

LOUISVILLE, KY.—BAILEY & KOERNER, local contractors, have been awarded the contract for the building of the First Christian Church at Fourth and Breckinridge Sts. The complete building will represent an outlay of about $200,000. It will be completed by Oct. 1.

STEUBENVILLE, OHIO.—The announcement is made that the Pennsylvania R. R. will start erection soon of a $130,000 depot at Steubenville. P. A. Bonebrake is Div. Supt.

CLEVELAND, OHIO.—An addition, costing $63,000, is to be made to the building now owned by the Tennis Euclid Co., at Euclid Ave. and East 57th St., the upper stories of which are occupied by the Pennsylvania lines. The annex will face East 57th St. and will be a duplicate of the existing structure. The Pennsylvania R. R. Co. has agreed to take space in the new addition, which will be six stories high, 60 × 80 ft. in size. Brick, terra cotta, steel and hollow tile will be used in its construction.

CLEVELAND, OHIO.—The Building Inspector has issued a permit for a $100,000 building on Euclid Ave. The building will be owned by the Euclid-Huron Improvement Co. It will be occupied in front by stores and offices and in the rear by a warehouse. The building, which will be of reinforced concrete construction, will be four stories high in part and two stories for the rest. The Euclid Ave. frontage will be 162 ft. G. A. Grieble, Columbia Bldg., is Arch., and the contractor is the J. CONNELLY CONSTRUCTION CO.

COLUMBUS, OHIO.—Bids will be received until Sept. 9 for the construction of a dining hall, kitchen, bakery, butcher shop and cold storage insulation at the Ohio Penitentiary. The building will be one story high, 207 × 186 ft. and will cost $152,000. Marriott & Allen, 20 East Broad St., Columbus, are the Archs. Noted on Aug. 11.

FORT WAYNE, IND.—Gault & Gault, Archs., of Terre Haute, Ind., are preparing plans for the construction of a church by the St. Andrew's Catholic Church on Lumbard St. Estimated cost, $50,000.

FORT WAYNE, IND.—The Pennsylvania R. R. Co. has purchased a site on Calhoun St. on which to build a depot estimated to cost $1,000,000. Bids will be asked as soon as the track elevation is completed. Thomas Rodd, Pittsburg, is Ch. Engr., line west of Pittsburg.

INDIANAPOLIS, IND.—Vonegut & Bohn, Archs., Indiana Trust Bldg., are preparing plans on which they will receive bids for the construction of a natatorium on East Michigan St. The building will be 40 × 100 ft., two stories high and is estimated to cost $65,000.

INDIANAPOLIS, IND.—The Crane Co., wholesale plumbers, has ordered plans and will soon ask for bids for the construction of a 10-story steel and concrete building on Market and Missouri Sts.

INDIANAPOLIS, IND.—The Lain Business College Co. will soon advertise for bids for the construction of a business college building on North Delaware St.

SOUTH BEND, IND.—The School Board, Charles Weidler, Pres., is planning to construct a high school building, to cost about $300,000. Bids will be in order later.

KINGSTON, IND.—The School Trustees are planning to build a school house in Kingston, the old building having been condemned by the State Board of Health.

ACTON, IND.—Henry Brown, Trustee Franklin Township, is preparing to ask for bids for the construction of a high school building in Acton.

AUBURN, IND.—The County Council has appropriated $250,000 for the construction of a court-house in De Kalb County. The County Commissioners will ask for bids as soon as amended plans can be procured.

CRAWFORDSVILLE, IND.—The Supreme Tribe of Ben-Hur is preparing to build a new home and office building to cost $200,000 or more.

FRENCH LICK, IND.—We are officially advised that Thomas Taggart is considering plans for the erection of an addition to his hotel at this city. D. A. Bohlen & Son, Majestic Bldg., Indianapolis, are Archs.

WAWAKA, IND.—E. Kelner, Trustee of Elkhart Township, will receive bids until 11.30 a. m., Sept. 10, for the construction of a high school building here.

KOKOMO, IND.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Kokomo to MOORE & DANNER, Kokomo, at $69,390. Time, Dec. 30, 1911.

DETROIT, MICH.—John Scott & Co., Ford Bldg., are preparing plans for a 3-story and basement school, 112 × 147 ft., for the Church of Mary Holy Redeemer, Rev. F. D. Mullane, Rector, 645 Junction Ave. The building is to be of paving and stock brick, Bedford stone, with composition roof, structural iron, hardwood finish and floors, mosaic tiling and electric fixtures.

Donaldson & Meier, Archs., Penobscot Bldg., have let the general contract for a 6-story and basement store building, 50 × 100 ft., for the E. M. Fowler Estate, Clarence Fleming, Agent, 816 Penobscot Bldg., to A. O. ALBRECHT CO., Penobscot Bldg. Cost, $100,000.

GRAND RAPIDS, MICH.—Osgood & Osgood, Widdicomb Bldg., have let the general contract for the 6-story warehouse for the Bissell Carpet Sweeper Co., R. E. Shanahan, Mgr., 10 Erie St., to JOHN McNABB, 203 Murray Bldg.

Osgood & Osgood, Widdicomb Bldg., have let the general contract for the proposed 7-story and basement warehouse and store building for Carl Knott & Co., 20 East Division St., to C. J. HOERTZ & SON, Porter Block. Cost, $100,000.

Andrew Retan, 830 Sutton Ave., is preparing plans for a 2-story addition to the school building at Buchanan St. and Cutler Ave. for the Board of Education, George F. Cornell, Secy., 1271 South Division St.

PONTIAC, MICH.—Bids were received as follows on Aug. 18 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Pontiac: King Lumber Co., Charlottesville, Va., $72,800; General Construction Co., Hathaway Bldg., Milwaukee, Wis., $79,500; States Construction Co., Pontiac, Mich., $76,451.

DURAND, MICH.—The Grand Trunk Ry. System is having plans prepared for a transfer shed at Durand; a freight shed at Pontiac, Mich., 400 × 30 ft., one story, brick, and a 1-story brick freight shed, 120 × 30 ft., to be located in West Detroit. J. A. Sheedy is Master of Bridges and Bldgs., at Durand.

CHICAGO, ILL.—Thomas McCall, Arch., 9 Jackson Boulevard, has let the general contract to the MORAN BUILDING CO., 79 Dearborn St., for a building containing twelve apartments at the northwest corner of 66th St. and Ellis Ave., to cost $40,000.

Nimmons & Fellows, Archs., Peoples' Gas Building, have let plumbing and sewerage to BAGGOTT & CO.; plastering to WILLIAM BALHATCHET & CO.; sheet metal and composition roofing to M. L. JENNINGS; steam heating to DAVIS CONSTRUCTION CO.; electrical work to PIERCE ELECTRIC CO.; painting and glazing to J. HOLMGREN for a $50,000 club-house for the Kenwood Club.

Jos. T. Fortin, 600 Blue Island Ave., is receiving estimates for a 2-story building, 65 × 130 ft., to cost $60,000, at 1224-6 McAllister pl, for the D. O. M. Congregation, Rev. Father Peter Barobino, Pastor.

D. S. Pentecost, 79 Dearborn St., is preparing plans for an apartment house with 36 apartments to be erected at Evanston Ave. and Brompton Pl., for William E. Peterson, 79 Dearborn St. It will be of pressed brick construction with steam heating.

H. J. Gaul, Arch., 172 Washington St., is receiving estimates for a 4-story building, 72 × 120 ft., to cost $50,000, at Chicago Heights, for the Sisters of St. Francis. It will be of fireproof construction, with steam heat and electric passenger elevators.

CHICAGO, ILL.—Andrew Landegren, Arch., 164 Dearborn St., will receive estimates after Sept. 1 on a 3-story building, 40 × 80 ft., at La Salle Ave. and Goethe St., for the Swedish Club. The structure is to contain lodge halls, bar, dining room and kitchen, and is to be of pressed brick construction, with steam heating, dumb waiter and oak trim.

J. E. O. Pridmore, 164 Dearborn St., has let the general contract to LANQUIST & ILLSLEY, 393 North Clark St., for the Iroquois Memorial Hospital at 87 Market St., to be four stories, 20 × 80 ft., of steel and tile fireproof construction, with steam heating, tile floor, oak trim and electric elevator.

A club-house, to cost $150,000, will be erected by the City Club of Chicago on the site in Plymouth Pl., as the result of the settlement of the litigation between the club and R. J. Gunning, and the signing of a lease for ninety years and ten months. The property is 50 × 93 ft. and the club will erect a 7-story building of steel and reinforced concrete within the next year, as by the terms of the lease it must be completed by July 1, 1912. The plans for the building are being drawn by Pond & Pond, Archs., Steinway Hall, and Peter J. Weber, Fisher Bldg., is Consult. Arch. The building will contain a hall and dining-room two stories in height, but the details of the finishing of the interior have not been decided upon. Henry B. Favill is Pres.; Spencer L. Adams, Secy.

CHICAGO, ILL.—We are advised that the contract has been let for the caisson foundation for the 10-story fireproof building on South Clark St., to EDWARD L. SCHEIDENHEIM, 135 Adams St., Chicago. The superstructure contract will be let about Sept. 15. Plans have been prepared by Schmidt, Garden & Martin, Archs., 172 Washington St. The estimated cost, $225,000.

KANKAKEE, ILL.—W. C. Zimmerman, Arch., 17 Van Buren St., Chicago, is preparing plans for a 1-story building, to cost $50,000, at Kankakee, Ill., for the Board of Administration, Frank D. Whipp, Fiscal Superv. It will be of concrete, stone and stucco plaster construction. Bids will be received on Sept. 12.

OAK PARK, ILL.—Patton & Miller, Archs., 140 Dearborn St., Chicago, will prepare plans for a 5-story building at Lake St. and Euclid Ave., Oak Park, Ill., for the Oak Park Storage & Warehouse Co. The structure will be of brick and mill construction.

MILWAUKEE, WIS.—William F. Coakley will erect a reinforced concrete fireproof building at the corner of Second and Fowler Sts. It will be seven stories high, 50 × 150 ft., and is to be used as a storage and warehouse. Cost, approximately $45,000.

Ferry & Clas, Archs., 419 Broadway, Milwaukee, are preparing plans for the building to be erected by Patrick Cudahy at Wells and Third Sts., to be used for store and office purposes. At present the building will be three stories, but will be twelve stories ultimately.

MILWAUKEE, WIS.—Preparations are being made by the Knights of Columbus for the erection of a club house to cost $50,000.

DECORAH, IOWA.—Bids were received as follows on Aug. 19 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Decorah: Northwestern Construction Co., Milwaukee, Wis., $56,000; General Construction Co., Hathaway Bldg., Milwaukee, $58,120; Carl J. Lange, Appleton, Wis., $60,800; Conners Bros. Co., Lowell, Mass., $54,608; Herman Bros., Williamsport, Pa., $54,216.

FARIBAULT, MINN.—The State Board of Control, Charles Halverson, Chn., St. Paul, will receive bids until 2 p. m., Sept. 5, for the general construction of an addition to the boys' custodial building at the State School for the Feeble-minded at Faribault. A horse and a cow barn of brick are also embraced in the contract. C. H. Johnston, St. Paul, is Arch. Cost, $50,000.

ST. PAUL, MINN.—The Board of Police Commissioners, W. A. Hardenbergh, Pres., will take bids soon for the construction of the 3-story reinforced concrete central police station, to be built on Market St. Reed & Stem are Archs., Endicott Bldg. Cost, $125,000.

James C. and Thomas C. Fulton, Pittsburg Bldg., St. Paul, capitalists, propose to remodel and add from four to six stories on the present 8-story Pittsburg Building, Fifth and Wabasha Sts. Pressed brick, cut stone, steel and reinforced concrete probably will be used in the construction. Cost, $300,000.

ROCHESTER, MINN.—Patton & Miller, Archs., 140 Dearborn St., Chicago, Ill., have also let masonry, cement work, fireproofing, plastering and painting to SCHELLIN & CO., Rochester, Minn.; structural iron to the ST. PAUL FOUNDRY, St. Paul, Minn.; carpentry to J. WATTS, and ornamental iron work to DUFFIN IRON WORKS, of Chicago, and cut stone work to P. SMITH, of Milwaukee, Wis., for a $90,000 high school, three stories, 70 × 150 ft., to be built at Rochester, Minn. It will be of fireproof construction. Steam heat, fan system and plumbing are to be figured in September.

ST. PAUL, MINN.—The W. J. HOY CONSTRUCTION CO., Metropolitan Bldg., city, has been awarded the contract for the general construction of the 4-story pressed brick, reinforced-concrete main telephone exchange building for the Northwestern Telephone Exchange Co., C. P. Wainman, Gen. Mgr., Minneapolis, Minn. Reed & Stem, Endicott Bldg., St. Paul, are Archs. Cost, $75,000.

LINCOLN, NEB.—The general contract for constructing the First National Bank building at Tenth and O Sts., has been awarded to the SELDEN-BRECK CONSTRUCTION CO., Fullerton Bldg., St. Louis, Mo., from plans by Hyand & Green, Archs., of Chicago, Ill. The building will be eight stories high, 50 × 142 ft., and will be of fireproof construction throughout. The walls will be of skeleton steel and the floors of hollow tile. It is expected to have the building completed and ready for occupancy by May 1, 1911.

RUGBY, N. DAK.—The Board of County Commissioners, H. Allerton, County Audr., has awarded the contract for the general construction of the cut stone, fireproof court-house and jail here to ALEXANDER NELSON, of Perham, Minn., at $76,000. Buechner & Orth are Archs., St. Paul, Minn.

ABERDEEN, S. DAK.—Patton & Miller, 140 Dearborn St., Chicago, Archs., are preparing plans for a $125,000 high school at Aberdeen. It will be of pressed brick, with tile roof, steam heat, fan system, and hardwood trim and floor.

HELENA, MONT.—The Roman Catholics of Helena, under Bishop John Patrick Carroll, will expend more than $1,000,000 in this city this year for educational and church structures. A cathedral is being built, patterned after the Votive church of Vienna. It is in the form of a Latin cross. The exterior will be a series of towers, battlements, pediments, pinnacles, windows, doorways and bold projections. The extreme dimensions will be 150 × 246 ft. On the gable of the facade will be placed a statue of St. Helena 12 ft. tall. The college will be three stories in height and patterned after the White House at Washington.

KANSAS CITY, MO.—We are officially advised that H. L. STEVENS & CO., Hall Bldg., Kansas City, has been awarded the following contracts: A 3-story reinforced concrete bank building at 920 Walnut St.; polished white granite and marble exterior, metal frames and interior trim throughout; Shepard & Farrar, Archs., Minor Bldg.; Missouri Savings Bank, owner. A gothic stone addition to the Troost Ave. Methodist Episcopal church, with a complete remodeling of the interior; plans prepared by H. L. Stevens & Co., 510 Hall Building, who will construct the work on a percentage basis; location, 26th St. and Troost Ave.; Rev. Dr. C. E. Patillo, Pastor. An 8-story reinforced-concrete office building at 1320 Main St.; H. L. Stevens & Co., 510 Hall Building, Archs. and builders.

ST. LOUIS, MO.—Announcement has been made by the Nicholls-Ritter Realty & Financial Co., 718 Chestnut St., that Mrs. Grace A. Leathe would erect a 17-story building at the northeast corner of Seventh and Chestnut Sts. The building is to be called the Leathe Building.

The Monogram Realty Co. has been granted a building permit to erect a 9-story mercantile building at 1700-18 Washington Ave., to cost $483,000.

PALESTINE, TEX.—Bids were received as follows on Aug. 19 by James Knox Taylor, Superv. Arch., Treasury Dep., Washington, D. C., for the construction of a post-office at Palestine: Cecil L. Saunders, Hot Springs, Ark., $67,918; L. R. Wright, Dallas, Tex., $83,928; Fell & Ainsworth, Waco, Tex., $66,840; McHenry-Beatty Co., East Liverpool, Ohio, $66,728; Donald D. Smith, Muskogee, Okla., $90,000; Charles H. Peckworth, 415 Hudson St., New York, $77,424; Tom Lovell & Sons, Denton, Tex., $72,800; Thames & Weber, Beaumont, Tex., $73,841, and the Standard Construction Co., Detroit, Mich., $95,125.

ENID, OKLA.—James Knox Taylor, Superv. Arch., Treasury Dep., Washington, D. C., has awarded contract for the construction of a post-office at Enid, to TOM LOVELL & SONS, Denton, Tex., at $96,443.

DENVER, COLO.—The I. O. O. F. will erect a building at 18th and Champa Sts. The building will be erected by three of the local lodges, United No. 4, Norden No. 64 and Silver State Encampment No. 30. It will be five stories in height and will cost $75,000. The three lower floors will be utilized for business purposes and the others will be fitted up as lodge rooms. R. S. Roeschlaub, King Block, is Arch.

DENVER, COLO.—A permit has been issued to Louis Mack for the erection of a 7-story building on California St., adjoining the Mack block. The structure will have a frontage of 50 ft. on California St. and will cost $80,000. It will be of steel and concrete frame work, with brick and stone inclosing walls. The work of wrecking the 2-story building that now occupies the site will be begun at once and the new structure will be completed early next year.

ROSWELL, N. MEX.—A contract has been awarded to the H. L. STEVENS CONSTRUCTION CO., of El Paso, Tex., for the erection of a $100,000 4-story office and store building at Roswell. The building is to be erected for S. E. Allison, of Roswell, and will be of reinforced concrete. Frost & Frost, El Paso, are the Archs.

TACOMA, WASH.—The State of Washington has appropriated $60,000 for a building for the State Historical Society and one for the Ferry Museum. They will be built of stone, brick and concrete, and will be 50 × 50 ft. Bids will be received until Oct. 1. Bullard & Hill, Provident Bldg., Tacoma, are the Archs.

SPOKANE, WASH.—A 6-story warehouse, to cost $75,000, is to be built on Havermale Island by Thomas Spencer, of the Kelley-Clarke Co. F. P. Hogan will erect a $350,000 warehouse on the adjoining property.

PORTLAND, ORE.—A 3-story building, to cost $75,000, is to be built on Williams Ave., on the site lately occupied by a school. The entire block has been bought by Robert Smith, Ion Lewis and C. H. Lewis for $105,000. The building will stand at the southwest corner, fronting 100 ft. each way on Williams Ave. and Russell St. The first floor will be fitted for stores. On the second floor will be offices, and on the third apartments. The UNITED ENGINEERING & CONSTRUCTION CO. has the contract. Excavation has been started, and the work will be completed as fast as possible.

The Board of School Directors has ordered plans from Whitehouse & Fouilhoux, Archs., for a building for the Lincoln High School. Bids will probably will be received by Nov. 1. The building will cost about $350,000.

PORTLAND, ORE.—The plans for a 5-story apartment house at 13th and Jefferson Sts. have been submitted to the Building Inspector. The building is to be erected by the Reed Institute and the estimated cost is $75,000. L. Thompson is Arch.

OAKLAND, CAL.—The completion of the plans for the Polytechnic College of Engineering to be erected at 13th and Madison Sts. is announced by Prof. W. E. Gibson and H. C. Ingram, and the work of moving the old buildings off the lot commenced recently. The building, which is to cover an area of 60 × 120 ft., will be of reinforced concrete and four stories in height. The architecture is of a modified mission type, and will combine beauty with convenience. The ground floor will be occupied by the machine shops and the electrical and mechanical laboratories for the practical instruction of the students in designing and building machinery, motors, etc. The upper floors will include the college offices, the physical, chemical and assay laboratories, drafting rooms, blue print rooms, class rooms and a large lecture room.

BERKELEY, CAL.—It is expected that construction of an Agricultural Hall will commence at the opening of the fall term. The building will be erected on the bluff north of the cinder track, and, like the other permanent structures of the Phebe A. Hearst plan, will be of white granite and fireproof. Plans for the building have been drawn by Prof. John Galen Howard, the Architect of the new University Library, Hearst Memorial Mining building, Greek Theatre, Boalt Law building and Senior Hall. The structure will measure 162 × 64 ft. On the main floor will be a lecture hall, with rising tiers of seats, capable of accommodating at least 500 persons. A large museum has been provided for, together with a library, laboratory for horticulture and viticulture, offices for Prof. E. J. Wickson, head of the department, and others connected with the agriculture college. On the second floor will be the entomological laboratories and other laboratories for scientific experiments of various kinds. There will be a lecture-room and rooms for instructors. The basement will contain laboratories for the treatment of plants. The mailing and document rooms, two faculty studies, a lecture room and lighting apparatus rooms will take up the remainder of the basement space. The interior of the building suggests the North Italian type of architecture. A lecture room is to be housed in a semi-circular structure extending outward on the south side of the building. In the center of the arch will be the main entrance to the building. Other doors will also be on the south side of the building. The corners of the building will be emphasized by the use of rusticated granite. The north facade, in its great stretch of windows, will be interrupted by light piers of granite alternating with columns of granite serving as mullions for the windows. The building is to cost $200,000.

LOS ANGELES, CAL.—A. L. Haley, Arch., Citizens' National Bank, Los Angeles, has awarded general contract for the erection of the 4-story brick apartment building at Orange and Valencia Sts., for A. W. Owens, to ROWLAND & PRUESS, Exchange Bldg., at $55,600. It will be 78 × 125 ft. and will contain 119 rooms, to be divided into apartments containing two rooms and bath each.

LOS ANGELES, CAL.—The LLEWELLYN IRON WORKS have contract, at $170,000, for the steel and iron work for the 8-story club building to be erected at 7th and Olive Sts. for the Los Angeles Athletic Club. The same firm has been awarded contract also for elevators for the building at $12,750. Parkinson & Bergstron, Security Bldg., are Archs.

The AIKEN REINFORCED CONCRETE CO., Union Trust Bldg., has the contract for constructing a reinforced concrete building, 112 × 644 ft. on the Los Angeles R. R. Co., at 55th St. and Moneta Ave. The building will be used as a paint shop for paint-rolling stock.

JOHN REBMAN, Citizens' National Bank Bldg., has been awarded a contract at $55,000 for brick work, carpentry, mill doors, sash, fire escapes, hollow tile, rough hardware, etc., for the Wade Hotel, being erected at Fifth and Olive Sts., for R. D. Wade. Neher & Skilling, are Archs, Pacific Electric Bldg.

SANTA MONICA, CAL.—The Milwaukee Building Co. has been selected to draw plans for the long deferred addition to the Kensington apartmentse in Santa Monica for Mrs. Nellie Schader. It will be a 3-story Swiss chalet structure, with a frontage of 225 ft. on the Appian Way, and a depth of 40 ft. Porches and balconies will completely encircle the building.

MODESTO, CAL.—Benjamin G. McDougall, Arch., Sheldon Bldg., has awarded the contract for the construction of the county jail at Modesto to the PACIFIC CONSTRUCTION CO., 16 California St., San Francisco, at $50,875.

LONG BEACH, CAL.—W. L. Porterfield states that he will erect a 9-story concrete business block and hotel, to contain 400 rooms, on the Westminster property.

LONG BEACH, CAL.—Charles E. Shattuck, Arch., Mason Bldg., Los Angeles, is preparing plans for a 6-story reinforced concrete depot building, 135 × 175 ft., to be erected at Long Beach for the Pacific Electric R. R. Co.

VENTURA, CAL.—The Board of Trustees of the Union High School District will erect a 2-story reinforced concrete high school. Estimated cost, $60,000.

BAKERSFIELD, CAL.—Train & Williams, Archs., Exchange Bldg., Los Angeles, Cal., have prepared plans for a 3-story brick building to be erected at Bakersfield for T. B. Rice. It will be 60 × 124 ft., with steel beams and columns, composition roof, steam heat, sidewalk elevators. Cost, $45,000.

SAN DIEGO, CAL.—See item under Water Supply—Irrigation.

MONROVIA, CAL.—Bonds for $125,000 have been voted for the erection of a high school building in Monrovia. The Board of Education will immediately select an architect to draw the plans.

SAN FRANCISCO, CAL.—The following temporary city hall proposition has been recommended to the Supervisors by its Building Committee. It is the offer of the Lincoln Realty Co. to erect a 7-story Class A structure, 38 × 275 ft., on the lot leased from the city at Fifth and Jessie Sts., just back of the present Lincoln Building in Market St., to cost $175,000, and of the Lankershim Estate to put up a structure, 75 × 250 ft., on the adjoining lot to cost $250,000, the whole to be leased to the city for $5,000 monthly for a term of five years. The companies offer to take over the city's present leases and to move the municipal offices free of cost. The two buildings are to be erected under the supervision and suggestions of the Board of Supervisors, its Building Committee and the City Architect. Work is to be commenced as soon as the Board of Supervisors ratifies the recommendation of the Committee.

At a recent meeting of the Board of Supervisors construction of the John Swett Grammar School was ordered, $101,800 being authorized for that purpose, together with $4,500 to be expended under direction of the Board of Education. An appropriation of $100,000 was made for the plumbing, electric wiring and installation of a heating and ventilating system at the City and County Jail and for plastering and installing elevators in the Hall of Justice. Emil De Nuef is City Arch.

MONTREAL, QUE.—It is reported that J. A. Jacobs, proprietor of the Jacobs Building, intends to erect a $1,000,00 modern hotel building on the site of the old Scroggie store at the corner of Windsor and St. Catharine Sts.

TORONTO, ONT.—S. F. McKINNON & CO., Ltd., have sold their 6-story warehouse to Cockburn & Rea, Ltd., and will erect a larger fireproof warehouse.

NIAGARA FALLS, ONT.—Bids are asked by R. C. Desrochers, Secy. Dept. Public Works, Ottawa, Ont., until Aug. 29, for the construction of an armory at Niagara Falls, Ont.

BRANDON, MAN.—The contract for a 7-story hotel for the Canadian Northern Ry. Co., here was awarded to THOMAS KELLY & SONS, of Winnipeg. The hotel will adjoin the station with a frontage of 140 ft. on Princess Ave.

WINNIPEG, MAN.—A hotel, to contain about 500 rooms, and to cost $2,000,000, is to be erected at Broadway and Fort Sts., by the Grand Trunk Pacific Ry. Co. Ross and McFarlane, 1 Belmont St., Montreal, Que., are Archs.

MEXICO CITY, MEX.—We are officially advised that the WILLIAM P. CARMICHAEL CO., Fullerton Bldg., St. Louis, Mo., has been awarded the contract for the design and construction of the 5-story reinforced-concrete frame for the Hotel Gante, Mexico City. This is a second contract in addition to the special "raft foundation" and waterproof basement now under construction. The completed building will cost about 1,200,000 pesos (approximately $600,000) and is designed and supervised by Jose Luis Cuevas, Arch., Mexico City. It will extend one block in length from Avenida 16 de Septiembre to Calle Zuleta.

## WATER SUPPLY—IRRIGATION.

*(*Denotes that this work is advertised in Engineering News.)*

PITTSFIELD, MASS.—The Special Water Com. on Aug. 12, submitted its report as prepared by Prof. William H. Burr, of New York; Hiram A. Miller, of Boston, and Prof. W. O. Crosby, of Boston, to the City Council, recommending the expenditure of $458,000 for increasing the water supply as follows: Construction of a storage reservoir with a capacity of about 440,000,000 gallons, taking water from Mill and Roaring Brooks; building a dam of stone and concrete, with the flow line at an elevation of 1,585 ft. above the sea level, and the connection of the several sources of water supply with said reservoir partly by conduits and partly by open channel. William H. Swift is Chn.

DALTON, MASS.—FORD & PARKER have been awarded contract by the Water Commissioners for laying 12,250 ft. of 10-in. iron pipe from the Cady Brook in Hinsdale to the town reservoir at $24,000. At the outlet of the brook a small concrete dam will be constructed.

WINCHENDON, MASS.—The Board of Water Commissioners has decided to drive a new well as an emergency addition to the water supply. William F. Clark is Supt.

MERIDEN, CONN.—The Water Department has decided to extend the water service to Cherry Hill.

EAST HARTFORD, CONN.—Bids will be received by the Board of Commissioners of the East Hartford Fire District, E. E. King, Pres., until 8 p. m., Aug. 31, for furnishing about seven miles of 10, 12, 14, and 16-in. water pipe and about two tons of special castings.

OGDENSBURG, N. Y.—The Board of Aldermen, it is reported, has passed a resolution providing for an issue of $175,000 of bonds for the installation of a filtration plant.

BROOKLYN, N. Y.—Bids will be received by the Department of Water Supply, Gas and Electricity until 2 p. m., Sept. 1, for furnishing, delivering, erecting and connecting complete in place and ready for operation, the necessary steamfitting and appurtenances, economizers, breeching, boiler feed pumps, feed water heaters, etc., and electric lighting equipment at the remodelled Ridgewood north side pumping station, Atlantic Ave., near Logan St., and for rebuilding a portion of the south wall of and making repairs to the old Ridgewood north side pumping station, Atlantic Ave. and Logan St., Boro. of Brooklyn.

*PERTH AMBOY, N. J.—Bids will be received at the office of the Board of Water Commissioners, until 8.30 p. m., Aug. 29, for furnishing all material and constructing complete according to plans and specifications a radial brick chimney, at Runyon, N. J. W. G. Weaver is Clk.

KEARNY, N. J.—The Town Council, on Aug. 10 awarded contract to JOHN FOX & CO., 253 Broadway, New York, for a car load of 6-in. pipe, at $23.30 per ton.

CONNEAUT LAKE, PA.—Bids will be received by T. F. Armour, Boro. Clk., until Sept. 5 for laying 9,800 ft. 4 and 6-in. water mains, setting 17 hydrants and 16 valves.

BRUNSWICK, MD.—The citizens voted on Aug. 1 to issue $5,000 of bonds for waterworks extensions and $5,000 for street improvements.

CLARKSBURG, W. VA.—The Water and Sewerage Board of Council has submitted a report recommending changes and additions to the present system to make it adequate for the needs of the city. The construction of an addition to the storage dam on West Fork River, making it six feet higher is recommended to give a 2,000,000-gallon additional flow or a total of 200,000,000 gallons daily capacity.

CLARKSBURG, W. VA.—The H. C. BROOKS CO. has been awarded contract for the installation of a filtration plant for this city, the choice between the types built by the Frederick T. Lew Co. or the New York Continental Jewell Filtration Co., being left to the contractor, both having been approved by the City Council.

NEWBURG, W. VA.—The Baltimore & Ohio R. R. Co. has awarded to CHARLES A. SIMS & CO. contract for digging a 15-acre reservoir here to supply water for the Grafton Division.

WHEELING, W. VA.—The city will extend the water mains to supply water to residents of Wheeling Heights; C. B. Cooke is City Engr.

GADSDEN, ALA.—Contracts for constructing water-works, bids opened on Aug. 4, have been awarded as follows: To CASEY-HEDGES CO., Chattanooga, Tenn., for boilers: HENRY R. WORTHINGTON CO., 115 Broadway, New York, for pump, water heater and turbo-centrifugal engine; LAIDLAW-DUNN-GORDON CO., 115 Broadway, New York, for 3,000,000-gallon pump.

MONTEVALLO, ALA.—Alabama Girls' Industrial School, Dr, T. W. Palmer, Pres., has awarded contract to PIEDMONT CONSTRUCTION CO., 916 Anstell Bldg., Atlanta, Ga., for the construction of an 84-ft. water tower and tank of 100,000 gallons capacity at $5,845.

MER ROUGE, LA.—The city will construct a steel tank with a capacity of 50,000 gallons of water.

MOUNT BLANCHARD, OHIO.—The village is considering the construction of waterworks.

CLEVELAND, OHIO.—The city is planning to construct a submerged intake for the new 9-ft. tunnel. The tunnel will extend out 16,000 ft. from the end of the present West Side tunnel.

NEW PHILADELPHIA, OHIO.—The citizens have voted to issue $130,000 of bonds to purchase the plant of the New Philadelphia Water-Works Co.

EAST LIVERPOOL, OHIO.—The contract will shortly be let for laying the intake pipe for the lower pumping station in this city. The pipe will be 24 in. steel main, 124 ft. in length.

EAST LIVERPOOL, OHIO.—J. Richard Kommer and C. E. Miller, of Pittsburg, Consulting Engrs., and James Leaf, of Rochester, Pa., Consulting Engr., have made a detailed inspection of the proposed site of the new water-works. Three wells will be drilled at once to determine the strata underlying the site and when these have been completed the engineers will make a report to the Board of Control. J. RICHARD KOMMER has the contract for furnishing the plans for the new water-works, which are expeced to cost $125,000.

COLUMBUS, OHIO.—We are officially advised that bids were received as follows on Aug. 15 by the city for 1,000 tons of c. i. pipe and 90 tons of specials. U. S. CAST IRON PIPE & FOUNDRY CO., Columbus, 6 to 16-in., delivered on line of work or f. o. b. cars or factory, Columbus, $24.00 and $23.25, respectively; specials, $35 and $53. (awarded contract). James B. Clow & Son, Chicago, pipe, f. o. b. cars or factory, Columbus, $23.35; specials, f. o. b., cars or factory, $50. Lynchburg Foundry Co., pipe, f. o. b. cars or factory, $23.85, specials, f. o. b. cars or factory, $50. Walter W. Jackson is Supt. W.-Wks.

MIDDLETOWN, OHIO.—The American Rolling Mill Co. will lay a 38-in. water main from the Miami River along a road to the plant. This, it is estimated, will give the company a water supply of 30,000,000 gallons daily.

CLEVELAND, OHIO.—Bids will be received by the Director of Public Service, until noon, Sept. 2, for furnishing pig lead for the city water department. A. B. Lea is Dir. Pub. Ser.

*GRAND RAPIDS, MICH.—Bids will be received at the office of the Board of Public Works, until 8 p. m., Sept 8, for the construction of basins and substructures of the buildings for filtration plant. The above includes the following: Concrete covered basins containing approximately 75,000 sq. ft.; concrete substructures containing approximately 4,000 sq. ft.; earth excavation is approximated at 35,000 cu. yds.; 56 gate valves and 150 tons of c.-i. pipe and specials, according to the plans and specifications on file at the office of the Board of Public Works, and at the office of Hering & Fuller, Engrs., 170 Broadway, New York.

DETROIT, MICH.—The Water Board Committee on Extension and Construction on Aug. 10 brought before the Board a recommendation that a bond issue of about $1,500,000 be asked to build a 300,000,000-gallon reservoir, north of the city.

QUINCY, ILL.—Bids will soon be received by the Citizens Water Works Co. of Quincy, for a new pumping building. Estimated cost, $10,000. Complete information may be obtained from W. R. Gelston, Supt. Daniel W. Mead is Consulting Engr., Madison, Wis.

*WATERLOO, WIS.—Bids will be received by the Board of Trustees, Waterloo, until 7.30 p. m., Sept. 6, for constructing reservoir, building concrete foundation for steam pump, laying approximately 18,000 lin. ft. of 4, 6, 8 and 10-in. water main and setting fire hydrant valves and valve box. Specifications may be seen at the office of Village Clerk, Waterloo, Wis., or office of engineer. James H. Thompson, 344 Dearborn St., Chicago, is Engr.

CLINTON, IOWA.—R. C. Hart, City Engr., was instructed on Aug. 9, to prepare plans for water-works to cost $600,000. W. E. Hayes is City Clk.

BURLINGTON, IOWA.—Contract has been let for a 6-in. water main at North Hill Highlands, to connect with the city system at the corner of Barcelona and Lloyd Sts.

PELLA, IOWA.—The city will receive bids until 6 p. m., Sept. 6, for combined water and light plant, including 18,000 ft. of 10-in. pipe, filter gallery, well, two buildings, two A. C. generators, two motors, two engines, two pumps, three boilers, transmission line, city lighting-lines, lamps, etc. A. C. Kuyper is City Clerk. Iowa Engineering Co., Clinton, Iowa, is Engr.

ST. PAUL, MINN.—The Water Board, on Aug. 10, awarded to the ROBINSON, CARY & SANDS CO., St. Paul, contract for supplying two pumps to be installed at Centreville Lake pumping station with a combined capacity of 25,000,000 gallons daily at $14,820.

AUSTIN, MINN.—We are officially advised that the city is considering the construction of extensions to the water-works system. Estimated cost, about $40,000. Bids will be asked about Sept. 1. William Todd is City Engr.

MINNEAPOLIS, MINN.—The following bids were received by the City Council on Aug. 12: For one 20,000,000-gallon centrifugal pumping engine: Allis-Chalmers Co., Milwaukee, Wis., $17,350; Platt Iron Works Co., Dayton, Ohio, $18,000; Henry R. Worthington Co., $13,837 and $15,177; Cadwell & Brown Co., Minneapolis, $20,105 and $22,527; Alberger Pump Co., $12,883; Power Imp. Co., Minneapolis, $13,520 to $15,930. For one 20,000,000-gallon vertical triple expansion pumping engine: Allis-Chalmers Co., Milwaukee, $88,700; Holly Mfg. Co., $106,700 to $114,000; Horner, Owens, Rutschler Co., $117,000; Camden Iron Works, Philadelphia, Pa., $122,850.

ONAGA, KAN.—We are officially advised that plans and specifications are being prepared by Burns & McDonnell, Consulting Engrs., Scarritt Bldg., Kansas City, Mo., for the construction of water-works here. Estimated cost, $20,000.

OAKLEY, KAN.—We are officially advised that plans and specifications have been completed for water-works and lighting plant at Oakley by Burns & McDonnell, Consulting Engrs., Scarritt Bldg., Kansas City Mo. Estimated cost, $40,000. Bids will be received as soon as the plans have been approved by the State Board of Health.

ALLIANCE, NEB.—Bids were opened on Aug. 10 for constructing extensions to the water-works requiring about 14,908 lin. ft., of 4-in., 6,440 lin. ft. 6-in., 2,826 lin. ft. 8-in., c. i. water main; 29 fire hydrants, 26 4-in., three 6-in., five 8-in. valves, etc., from the plans of Grant & Letton, F. & M. Bldg., Lincoln. Contract has been awarded to KATZ-CRAIG CONSTRUCTION CO., 851 Brandeis Bldg., Omaha, at $19,200. Other bidders were: T. C. Brooks & Sons Co., Jackson, Mich., $19,240; G. E. Smith, Indianola, Iowa, $19,573; Intermountain Building & Constructing Co., Tecumseh, $19,979; T. N. Waller, Alliance, $20,226; Des Moines Bridge & Iron Co., Des Moines, Iowa, $20,783; W. D. Lovell, Minneapolis, Minn., $22,100.

MILFORD, NEB.—We are officially advised that the city is considering the construction of a water and light plant. Estimated cost, $20,000. John Martz is Engr., Seward, Neb.

FAIRBURY, NEB.—We are officially advised that the city is considering the construction of a 18-ft. standpipe, 100 ft. high. B. Z. Millikan is City Clk.

DAVID CITY, NEB.—We are officially advised that the city is considering the construction of water extensions and a new electric light plant. Bids will be asked about September. Estimated cost, $40,000. John Martz is City Engr.

CARRINGTON, N. DAK.—Bids will be received until Sept. 9 by the City Council for extending the water mains. L. P. Wolff is Consulting Engr., Essex Bldg., St. Paul, Minn.

*BELLE FOURCHE, S. DAK.—Bids for the purchase of $50,000 of water-works bonds of the city of Belle Fourche will be received by David R. Evans, Mayor, until 2 p. m., Sept. 20. The bonds will bear interest at the rate of 5% per annum; they are issued for a term of 20 years, with the right of redemption upon any semi-annual interest day after ten years. Further information can be obtained upon application to David R. Evans, Mayor, or Rush C. Fellows, City Audr.

SLATER, MO.—We are officially advised that bids were received on Aug. 9 for water-works extension and improvements at Slater. General contract was let to JOSEPH BORTENLANGER, Slater, Mo. Burns & McDonnell are Consulting Engrs.

WARRENTON, MO.—The city has voted $25,000 of bonds for water and sewer system. The Fuller Coult Co. are Engrs., Chemical Bldg., St. Louis, Mo.

LA PLATTA, MO.—We are officially advised that plans and specifications are being prepared by Burns & McDonnell, Consulting Engrs., Scarritt Bldg., Kansas City, Mo., for the construction of water-works and sewers here. Bids will not be asked until October.

MONROE CITY, MO.—We are officially advised that plans and specifications for water-works and sewers for Monroe City have been completed. Estimated cost, approximately $70,000. Bids will not be asked until some time in the spring. Burns & McDonell are Consulting Engrs.

MUSKOGEE, OKLA.—The city has appointed a committee with authority to appoint a hydraulic and sanitary engineer to make preliminary investigation and report on the improvement of water-works, sanitary sewer and sewage disposal plants; A. H. McGarr is Mayor.

MANNSVILLE, OKLA.—The city has voted $20,000 of bonds for the construction of water-works.

YUKON, OKLA.—The city is considering the construction of water-works and sewer system. Estimated cost, $40,000. Bids will be asked about Sept. 15. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

*ARAPAHO, OKLA.—Bids are asked by M. C. Main, Mayor, until 8 p. m., Sept. 6, for the purchase by the city of all material required in the construction of a system of water-works and electric lights. Lists of material and quantities can be had by addressing Fred B. Gallion, City Clk., or the O'Neil Engineering Co., 1503-8 Praetorian Bldg., Dallas, Tex.

DENVER, COLO.—The HOLME & ALLEN PIPE & CONSTRUCTION CO. has been awarded contract for constructing the proposed extension of the city water distributing system in South Denver, at $14,142.

GRAND VALLEY, COLO.—Contract for construction of water-works here has been awarded to D. G. GORDON, of Pueblo, at $26,000.

ARON, COLO.—The farmers in Beaver Township, in the southwest part of Washington County, have organized a corporation, known as the Stockmen's Ditch Co., and have filed suit in the district court for the purpose of securing the condemnation of a large tract of land for reservoir purposes. The project is located on Beaver Creek and the water is to be secured from the flood waters, centrifugal pumps to be used in raising the water. The project will bring 40,000 acres of the Washington County lands under the new ditch.

CANYON CITY, COLO.—Announcement was made here on Aug. 10, that the South Canyon Water Co. would begin the installation of a water system in South Canyon City, for which it was given a franchise several months ago by the Council.

CHEYENNE WELLS, COLO.—The citizens voted on July 26, to issue $12,000 of bonds for water-works. Bids for construction will be received about Aug. 25. W. E. Cain is Mayor.

COLBRAN, COLO.—The town proposes to construct water-works. Estimated cost, $5,000. R. P. Hilleary of Colbran is Engr.

GRAND VALLEY, COLO.—Grand Valley Irrigation District voted on Aug. 1, to issue $425,000 of bonds. It is proposed to purchase the old Wilcox canal and repair and enlarge it. Contract will probably be let during this month.

FOWLER, COLO.—The Omar Irrigation District has voted to issue $450,000 of bonds for the immediate completion of the Mammoth reservoir. When completed this storage lake will hold 20,000 acre-ft. of water for the 10,000 acres of land under it for cultivation.

MONTROSE, COLO.—Plats have been filed in the County Clerk's office at Montrose, by W. D., James and E. S. Gould, showing the plans of a proposed reservoir and ditch project soon to be built in the vicinity of Crystal creek, near here. The reservoir will be formed by a dam 58 ft. high and will contain 56,407,000 cu. ft. of water. The ditch will be about eleven miles in length, with a carrying capacity of 300 ft. Estimated cost $35,000.

WHITE BLUFFS, WASH.—Henry Hosebar will construct a private irrigation system near here.

SPOKANE, WASH.—The Water Department has recommended the following extensions to the water works system estimated to cost $100,000: A 12-in. instead of a 6-in. main in Montgomery Ave. from Division to Hamilton St.; and 8-in. main in Buckeye Ave. from Division to Standard Sts., thence in Standard to Grace Ave. and thence east in Grace Ave. to Cincinnati St.; an 8-in. main, Grace Ave., Nevada to Columbus Sts., thence south of Columbus St., Grace Ave., to the S. F. & N. R. R. Tracks; a 12-in. main south on Hamilton St., Baldwin to Dive Aves; an 8-in. main in Cataldo Ave., Hamilton to Columbus St., south on Columbus St. to Springfield Ave., west in Springfield to Dakota St., north in Dakota St. to Cataldo Ave. and east in Cataldo Ave. to Hamilton St.

FORT BARRY, CAL.—Bids were opened on Aug. 6 by Maj. George McK. Williamson, Constructing Q. M., U. S. A., Fort Mason, San Francisco, for constructing reservoir, wooden tank, extending mains, etc., at Fort Barry. Contract has been awarded to A. L. CHAMBERS, 624 Walsworth Ave., Oakland, at $7,159.

RIVERSIDE, CAL.—The city will soon purchase 71 new fire hydrants to be installed throughout city, including East Side and Arlington.

SAN DIEGO, CAL.—The city has voted bonds for $1,746,500 for municipal improvements as follows: $1,000,000 for Panama-California Exposition, 1915; extension of water system, $340,000; extension of sewer system, $193,000; city fire alarm system, $94,000; Chollas valley sewer system, $52,000; storm drain, $40,000. Escondido bridge, $17,000.

REDLANDS, CAL.—The Mill Creek Reservoir Co. has been incorporated with a capital stock of $20,000 to build irrigation ditches and reservoirs. The stockholders are: W. H. Van Leuven of Redlands, N. B. Hinkley, M. L. Frink and J. M. Cole of Bryn Mawr and J. H. Strait of Redlands.

ONTARIO, CAL.—F. E. Trask, Consulting Engr., of Los Angeles, is preparing plans for a municipal water-works system. Estimated cost between $125,000 and $150,000.

OCEANSIDE, CAL.—The City Engineer has advised the City Trustees that the following is his estimate of the cost of the new city water system: 8,350 ft. of 10-in. c. i. pipe, 3,700 ft. 4-in., 1,800 ft. 6-in., 800 ft. 4-in. $17,000.

WELLINGTON, NEV.—F. H. Vogle of Wellington, and San Francisco with a party of California and Pennsylvania capitalists, has planned to reclaim more than 8,000 acres of land in Smith Valley, which will be opened up for settlers. The company has already sufficent water anl has some land under irrigation, and by enlarging its reservoirs and irrigation canals it will be able to irrigate a large acreage to be opened up n a short time. This land will be tributary to the Nevada Copper Belt R. R. built from Waubuska to Mason, and which is to be extended.

PROVO, UTAH.—The State Board of Land Commissioners, Salt Lake City, has decided to lend $50,000 of its funds to the Union Reservoir Co., of Utah and Wasatch Counties for the completion of an irrigation project which will water lands in both counties. The company is a consolidation of the Provo Reservoir Co., the Sego Irrigation Co., the Timpanogas Irrigation Co., and the Wasatch Irrigation Co., which own a number of water rights and canals. The project calls for the building of a number of reservoirs and canals to irrigate lands in Wasatch County and on the Provo bench.

SALT LAKE CITY, UTAH.—Applications have been filed by the Virgin Valley Reclamation Co., for 100 cu. ft. per sec. from Kanab, Swan, Strawberry and Duck Creeks, in Kane County, and by Otto Cromquist, of Logan, for 15 cu. ft. per sec. from Bear River, in Cache County, to be used for irrigation purposes.

OGDEN, UTAH.—A quarter of a million dollars is to be spent by the Weber-Davis County Canal Co. in cementing its irrigating ditch from the intake at the month of Weber Canyon on to the sand ridge, where the first main branches are diverted. Contract has been let to the GILLIS CONSTRUCTION CO., of Salt Lake City, and calls for the concreting of five miles of the ditch, both bottom and sides, and involves an expenditure of $150,000. A similar amount will be spent in other improvements looking to the prevention of the loss by seepage along the canal.

MONTREAL, QUE.—Bids will be received by the Board of City Commissioners, L. N. Senecal, Secy., until Sept. 14 for work to be done in the River Saint Lawrence, at entrance of Aqueduct, to include furnishing and laying pipe, constructing a concrete pier and dredging and excavating.

LETHBRIDGE, ALTA.—The city proposes to spend $144,000 for water-mains and new sewer extensions, the work to be done by day labor. C. M. Arnold is City Engr.

TAPILA, MEX.—Dr. C. M. Harrison of Mexico City will establish a banana plantation near Tapila. A pumping plant and irrigation system will be established at cost of about $35,000.

## SEWERAGE.

NEW BEDFORD, MASS.—William F. Williams, City Engr., has presented to the State Board of Health, Boston, plans for the construction of the proposed intercepting sewer.

*OLEAN, N. Y.—Bids are asked until 8 p. m., Sept. 13, by the Commissioners of Public Works for a vitrified pipe sewer and appurtenances in Main St. For details, see advertisement in this issue.

CALDWELL, N. J.—The Borough Council is considering the construction of a sewage system. Estimated cost, $80,000.

NEWARK, N. J.—Bids will be received by the city until 3.15 p. m., Aug 25, for the construction of the Weequahic outlet sewer. The following is about the amount of the work to be done, and the materials to be furnished in the construction and completion of the work: 1,400 ft. of 18-in. double-strength vitrified salt-glazed pipe sewer, less than 6 ft. deep; 1,320 ft. of 18-in. double-strength vitrified salt-glazed pipe sewer, from 6 to 10 ft. deep; 1,225 ft. of 18-in. double-strength vitrified salt-glazed pipe sewer, from 10 to 14 ft. deep; 580 ft. of 18-in. double-strength vitrified salt-glazed pipe sewer, over 14 ft. deep; 22 manholes with iron heads and covers complete, including one chimney manhole. Morris R. Sherrerd is Ch. Engr. Bd. Pub. Wks.

MARS, PA.—Bids were opened on Aug. 9 by the Borough Council for constructing vitrified pipe sewers, including all flush tanks, manholes, etc., requiring about 13,344 ft. of 8-in. and 2,368 ft. of 10-in. sewer, from the plans of L. D. Tracy, 245 Fourth Ave., Pittsburg. Contract has been awarded to WILLIAM JONES, of Carnegie, at $15,800. Other bidders were: Frank Monell, Pittsburg, $16,800; Maynard & Flynn, Pittsburg, $21,375; F. E. McKuistion, Butler, $21,050; N. J. Boyer, Butler, $21,500.

*PHILADELPHIA, PA.—George R. Stearns, Dir. Pub. Wks., on Aug. 10 awarded contracts as follows for the construction of a sewage disposal plant in Torresdale: To COSTELLO & CO., for the pumping station at $16,200, and for the disposal plant at $61,356; for erecting a power plant in connection with the pumping station to the KEYSTONE STATE CONSTRUCTION CO. at $17,350; to EDWIN H. VARE for constructing an intercepting sewer from Frankford Ave. to Pennypack Creek at $43,000.

WILLIAMSPORT, PA.—Plans are being prepared for the construction of a storm sewer 6-ft. diameter in Penn St. Estimated cost, $22,000.

HARRISBURG, PA.—Plans are being prepared by the city engineering department for the construction of sewers to be built this year under the $100,000 loan item for sewer extensions.

NORTH BRADDOCK, PA.—Bids will be received at the Borough Engineer's office, Municipal Bldg., Jones Ave., North Braddock, un til 3 p. m., Sept. 2, for constructing a terra cotta pipe sewer in Main St., about 354 ft. of 8-in. pipe, 420 ft. 6-in. pipe, one manhole, one lamphole; for repaving along Hawkins, Jones and Bell Aves., between curb line and the tracks of the Wilkinsburg & East Pittsburg St. Ry. Co.; for repairing the floors of bridges over Tassey hollow, East St. and Dooker Hollow. C. A. Stewart is Boro. Engr.

ERIE, PA.—The city is considering the construction of a storm water drainage system in the Sixth Ward. Estimated cost, $10,500.

WEST CHESTER, PA.—The Council is considering the construction of a sewerage system. Estimated cost, $40,000.

BELLEVERNON, PA.—The Boroughs of Bellevernon, Charleroi, Monessen, Donora, North Charleroi and Webster are considering constructing a joint sewage disposal plant.

*CENTREVILLE, MD.—Bids will be received at the office of the Board of Town Commissioners until noon, Sept. 5, for constructing about 12,500 ft. of 8, 10 and 12-in. sewers, about 2,400 ft. of house-connections, and 45 manholes. Morse & Cockey are Consulting Engrs.

ANNAPOLIS, MD.—The City Council is considering a plan for the construction of a sewage pumping plant.

GOVANS, MD.—The Baltimore County Commissioners are considering the extension of the sewer mains.

NORFOLK, VA.—The Public Improvement Committee of Council has appropriated $20,962 for the following work: Concrete drain from Cumberland to Granby Sts., $13,732; concrete drain between Redgate and Westover Aves., and extension of drain now in part of block between Westover and Graydon Aves., to across Armistead Bridge Road, $4,800; concrete drain to and up part of Channel St., from Willoughby Ave. $2,350. W. T. Brooke is City Engr.

MARTINSBURG, W. VA.—The city is considering the construction of a sewer system and disposal plant and appointing Calvin W. Hendrick, Ch. Engr. Sewerage Comn., Baltimore, Md., to estimate cost and make surveys, etc.

GREENVILLE, S. C.—Bids will be received by W. E. Beattie, Chn. Paving and Sewer Commission, until Sept. 10, for furnishing material and constructing sanitary sewer extensions. C. P. Ballenger is City Engr.

TOCCOA, GA.—The city has voted $19,000 of bonds for the construction of the sewer system.

MONTGOMERY, ALA.—The city will construct a concrete storm sewer across the property in the present path or course of Genetta Ditch, extending from South Lawrence to South Perry Sts. Ira H. Virgin is Acting Mayor.

COLUMBUS, MISS.—The city is considering the construction of storm sewers in connection with other street improvements. Charles Lyon Wood is Engr., Columbus.

*LOUISVILLE, KY.—Bids will be received by the Commissioners of Sewerage, P. L. Atherton, Chn., until noon, Sept. 2, for constructing Sec. F of Heargrass intercepter Contract 73. The work consists mainly of the construction of about 940 ft. of 39-in. reinforced-concrete sewer, 1,729 ft. of 33-in. plain concrete sewer, 2,543 ft. of earth excavation, maximum cut 29.5 ft., minimum cut 9.5 ft., average cut about 21.2 ft., about 640 cu. yds. of concrete and about 25,000 lbs. of steel. J. B. F. Breed is Ch. Engr. Advertised last week.

EAST LIVERPOOL, OHIO.—The city will construct sewers in portions of Avondale, Calcutta, Bank, Oak and other streets.

PIQUA, OHIO.—The City Council on Aug. 8 passed a resolution providing for the construction of a storm sewer in the north end of the city to consist of 2,660 lin. ft. of 48, 36 and 30-in. monolithic or reinforced pipe; 1,100 lin. ft. of 24-in. pipe, nine manholes and 20 catch basins. A. Schroeder is City Engr.

CIRCLEVILLE, OHIO.—The Board of Public Service proposes to construct a storm water sewer to cost $4,500 and sanitary sewers to cost $15,000; sewers to be of pipe. Sweetman & Stiles, of Circleville, are Engrs.

LANCASTER, OHIO.—Bids will probably be received in November for the construction of sewers on the west side. Estimated cost, $4,300. John N. Wolfe is City Engr.

UPPER SANDUSKY, OHIO.—Bids will be received by the City Clerk until Sept. 6 for constructing a sanitary and surface water sewer in Warpole St.

NEW CASTLE, IND.—Bids will be received until Sept. 5 for constructing a sanitary sewer. L. M. Johnson is City Clk.

MARION, IND.—The city will construct the Stephenson St. sewer at once.

LAPORTE, IND.—The following are the bids opened on Aug. 8 for the construction of sewers: (a) Tyler St.; (b) K St.: Michael & Minicks, Marion, (a) $14,196, (b) $6,637; H. B. Holman, Rochester, (a) $14,380, (b) $6,384; O'Shea & Shea, Hammond, (a) $15,002, (b) $6,755; Foulks Contracting Co., Terre Haute, (a) $15,016, (b) $6,418; William Rheinhart, Laporte, (b) $6,389; Melton & Cutler, Gary, (a) $14,802, (b) $6,632; Rankert & Co., Mishawauka, (a) $12,218, (b) $5,857.

TERRE HAUTE, IND.—Bonds for $40,000 have been sold for the construction of sewer extensions. The City Engineer on Aug. 1, recommended a route for a new sewer line to drain the city from 30th St. to Eighth Ave. East, and north to city limits. Estimated cost, $40,000.

JEFFERSON, IND.—The Council has adopted a resolution providing for the construction of a sewer in Pearl St., from Court Ave. to the river, with branch sewers in Maple, Chestnut and Market Sts. V. W. Lyons is City Engr.

*OWOSSO, MICH.—The city will receive bids until 2 p. m., Sept. 8, at the City Clerk's office, for the construction of sewers as follows: 24-in., about 1,600 ft.; 20-in., about 880 ft.; 15-in., about 500 ft.; 6-in. Y branches, about 80; manholes, 12; one special catchbasin inlet for flushing. E. F. Joslin is Engr.

SOUTH HAVEN, MICH.—Bids were opened on Aug. 12 for constructing about 4,000 lin. ft. of 8 and 16-in. sewers. Contract has been awarded to the SWANSON CO., 834 North Clark St., Chicago, Ill. A. Ryall is City Clk.

WAUPACA, WIS.—The Board of Public Works is making preliminary plans for the construction of a sewer system and septic tank.

ESSEX, IOWA.—The citizens have voted in favor of installing a sewer system.

MOUNT VERNON, IOWA.—We are officially advised that the city is considering the construction of a sewerage system. William Gambol is City Clk.

CLINTON, IOWA.—R. C. Hart City Engr., has been instructed to prepare plans for the construction of sewers in District 3, estimated cost, $90,000; and in District 4, cost, $12,000. W. E. Hayes is City Clk.

EMMETSBURG, IOWA.—Bids will be received until Sept. 6 by T. E. Rutledge, City Clk., for constructing 2,987 ft. of 8-in. salt glazed vitrified sewer pipe in portions of Broadway, 14th, Union and 16th Sts.

BURLINGTON, IOWA.—Contract for constructing a sewer in Maple St., from Summer St. to May Ave. has been awarded to GEORGE PETERSON, the lowest bidder.

GARNETT, KAN.—We are officially advised that plans and specifications have been completed and bids will be received in about four weeks by Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., for sewers and sewage purification here. Estimated cost, $50,000.

PLEASANTON, KAN.—We are officially advised that plans and specifications have been completed by Burns & McDonnell, Consulting Engrs., Kansas City, Mo., for sewers and sewage purification here. Estimated cost, $40,000. Bids will be received in about four weeks.

GRAND ISLAND, NEB.—The City Engineer and the Trustees of Grand Island College are preparing plans for connecting the sewer system for the Soldiers' Home, near here, with the city system. The state, it is reported, has appropriated $10,000 for this work.

CARRINGTON, N. DAK.—Bids will be received until Sept. 9 by the City Council for constructing a septic tank, main outlet and certain sewers in Sewer District No. 1. L. P. Wolff is Consulting Engr., St. Paul, Minn.

WARRENTON, MO.—The city has voted $25,000 of bonds for sewer and water system. The Fuller-Coult Co. are Engrs., Chemical Bdg., St. Louis, Mo.

LA PLATTA, MO.—See item under Water-Supply—Irrigation.

TEXARKANA, ARK.—The city will construct a sewer system in a district comprising 33 streets.

BEAUMONT, TEX.—The city rejected bids for construction of sewers provided for in the $60,000 bond issue. Work will be done by the city under the supervision of C. L. Scherer, City Engr.

MUSKOGEE, OKLA.—The city has appointed a committee with authority to appoint a hydraulic and sanitary engineer to make preliminary investigation and report on the improvement of the sanitary sewer and sewerage disposal plant. A. H. McGarr is Mayor.

GOLDEN, COLO.—W. F. Allison, City Engr., has completed plans for the construction of sewers in Sanitary Sewer District 2. Estimated cost, $10,483.

ELLENSBURG, WASH.—The City Council has decided to construct sewers in the southeast section of city. Estimated cost, $12,000. The northwest sewer will also be constructed at a cost of about $13,325.

PORTLAND, ORE.—The Sewer and Drainage Committee has recommended to the City Council the construction of a concrete sewer system for the Riverside District. Estimated cost, $120,000.

SAN DIEGO, CAL.—See item under Water Supply—Irrigation.

BRAWLEY, CAL.—Bids will be received until Sept. 19 by the Board of City Trustees for constructing a sewer system here. Estimated cost, $18,000. W. H. Whelan is City Clk.

ALAMEDA, CAL.—F. H. DAHNKE has been awarded contract for building the south side sewer for which $30,000 has been voted.

PASADENA, CAL.—The only bid received on Aug. 9 by the city for constructing the reinforced-concrete storm water sewer was that of Andrew Halloway, of Pasadena, at $174,000. Herman Dyer is City Clk.

PETERBORO, ONT.—Bids will be received until Sept. 1 by R. S. Armstrong, City Clk. for Contract (A), laying 2,000 ft. of sanitary sewer and 4,200 ft. of storm drains. (G) electrically operated air compressors and ejectors. (P) sewage pumping station. (S) 8 to 30-in. tile sewer pipe. T. A. S. Hay is City Engr.

## STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

CONCORD, N. H.—Bids were received on Aug. 12 by H. C. Hill, State Engr., for the construction of a gravel road in the town of Lyme. FRED. M. STOWERS, Methuen, Mass., was awarded the contract.

Bids are asked until 1 p. m., Sept. 9, by H. C. Hill, State Engr., Concord, for surface graveling in the town of Gorham. The estimated cost is $7,900.

WORCESTER, MASS.—The contract to pave Main St., from Hawthorn St. to Webster Sq., with granite block, has been awarded to the HASSAM PAVING CO., at $40,000. Work is to start immediately, it is stated.

HARTFORD, CONN.—Bids for State Road work will be received at the office of the State Highway Commissioner, Capitol, until 2 p. m., Sept. 2, as follows:

Town of Bloomfield, first section, 2,474 lin. ft. macadam on Blue Hills av.; second section, 20,908 lin. ft. on the Tariffville Road, including six 12-in., four 15-in., one 18-in. and one 24-in. tile culverts. Plans and specifications are with H. G. Mills, First Selectman, Bloomfield.

Town of East Granby, 4,668 lin. ft. gravel or macadam on the Tariffville road, including two 30-in. and two 15-in. tile culverts and one reinforced concrete arch culvert. Plans and specifications are with Morton Sanford, First Selectman, Simsbury.

Town of Simsbury, first section, 1,562 lin. ft. macadam on Tunxis St.; second section, 4,690 lin. ft. macadam on the Tariffville Road, including 16 12-in. tile culverts. Plans and specifications are with Morton Sanford, First Selectman, Simsbury.

Town of New Hartford, 2,799 lin. ft. gravel or macadam road, including two 15-in. and one 18-in. tile culverts. Plans and specifications are with R. S. Hulbert, Winsted, Conn.

Town of Barkhamsted, first section, 8,997 lin. ft. grading on the New Hartford Road, including one 12-in., three 18-in., two 15-in. and seven 24-in. tile culverts and one reinforced concrete arch culvert; second section, 10,236 lin. ft. gravel on the same road, including four 15-in., one 18-in., one 24-in. and three 30-in. tile culverts and three reinforced concrete arch culverts. Plans and specifications are with R. S. Hulbert, Winsted, Conn., and F. M. Chapin, Pine Meadow, Conn.

Town of Winchester, 7,516 lin. ft. gravel road on the Norfolk Turnpike, including two 12-in., four 18-in., six 15-in. and two 24-in. tile culverts and one reinforced concrete arch culvert. Plans and specifications are with R. S. Hulbert, Winsted, Conn.

Town of Goshen, 9,715 lin. ft. graded road, including two 12-in., three 20-in., twelve 24-in., one 15-in. and two 18-in. tile culverts and one reinforced concrete arch culvert. Plans and specifications are with R. S. Hulbert, Winsted, and Geo. E. Cook, Torrington, Conn.

Town of Harwinton, 14,100 lin. ft. gravel road, including four 18-in., eight 15-in. and five 24-in. tile culverts and two reinforced concrete arch culverts. Plans and specifications are with W. J. Barber, First Selectman, Campville, Conn.

Town of Enfield, 3,705 lin. ft. macadam. Plans and specifications are with C. D. Bent, First Selectman, Thompsonville, Conn.

Town of Duffield, 7,754 lin. ft. macadam on the Springfield Road, including five 12-in. and two 15-in tile culverts. Plans and specifications are with E. A. Fuller, First Selectman, Suffield, Conn.

HARTFORD, CONN.—Bids for the construction of State Road work were received at the office of the State Highway Commissioner, Aug. 18, as follows:

Town of North Branford, 15,327 lin. ft. of macadam-telford road, 14 ft. wide, including six 12-in., two 18-in., one 24-in., one 15-in. and one reinforced I beam concrete culvert, on the Middletown-New Haven Turnpikes: A. Brazos & Sons, Middletown, Conn., 1.85 per lin. ft. for macadam, $2.20 per lin. ft. for telford, 80 cts. per lin. ft. for rubble drain; Lawrence Bruce, North Haven, Conn., $2.19, $2.99 and $1.50; F. Arrigoni & Bro., Durham, Conn., $2.27, $2.95 and $1.

Town of Durham, 18,237 lin. ft. macadam-telford road, 14 ft. wide, including three 12-in., three 18-in., two 15-in., one 20-in., two 24-in. and one 30-in. tile culverts and two reinforced I beam concrete culverts, on the Middletown-New Haven Turnpike: F. Arrigoni & Bro., Durham, Conn., $2.27 per lin. ft. for macadam, $2.95 per lin. ft. for telford, $1 per lin. ft. for rubble drain; A. Brazos & Sons, Middletown, Conn., $2.30, $3.15 and 80 cts.

Town of North Haven (three sections macadam-telford road), first section, 840 lin. ft., 14 ft. wide: Lawrence Bruce, North Haven, $1.59 for macadam, $2.59 for telford, $1.55 for rubble drain; second section, 727 lin. ft., same contractor, $1.97 for macadam, $2.97 for telford, $1.55 for rubble drain; third section, same contractor, $1.81 for macadam, $2.81 for telford and $1.55 for rubble drain.

Town of East Haven, first section, 3,178 lin. ft. macadam-telford road, 14 ft. wide, on the Foxen Road, including one 18-in. tile culvert: C. W. Tryon, Meriden, Conn., $2.20 for macadam, $2.75 for telford, $1 for rubble drain; B. D. Pierce, Jr., & Co., Bridgeport, Conn., $3.67 for macadam, $4.20 for telford, $1 for rubble drain. Second section, 7,670 lin. ft. macadam-telford road on Thompson Ave., Robert D. Daly, New Haven, Conn., $1.49 for macadam, $2.25 for telford; C. W. Tryon, Meriden, Conn., $1.55 for macadam, $2.25 for telford, $1 for rubble drain; B. D. Pierce, Jr., Co., Bridgeport, Conn., $1.75 for macadam, $2.49 for telford and $1 for rubble drain.

Town of Beacon Falls, 2,325 lin. ft. gravel-telford road, including three 15-in. and one 18-in. tile culverts: Merritt & Bush, Stamford, Conn., $1.25 for gravel, $2 for telford, $1.25 for rubble drain, $6 per cu. yd. for masonry; E. G. Pardee, Bethany, Conn., $2.89 for gravel, $3.54 for telford, 65 cts. for rubble drain, $6 per cu. yd.

Town of Bristol, 2,251 lin. ft. macadam-telford road, including one 15-in. tile culvert: Pierson Engineering & Construction Co., Bristol, Conn., 98 cts. per sq. yd. for macadam, $1.40 per sq. yd. for telford, $2.85 per sq. yd. for brick work; Merritt & Bush, Stamford, Conn, $1.05 per sq. yd. for macadam, $1.40 for telford, $2.90 for brick work.

Town of Sherman, 6,785 lin. ft. graded telford road, including three 18-in., twelve 24-in., one 15-in. and two 20-in. tile culverts, on the New Milford Turnpike: Goodman & Trumbull, $19,247.84 for grading, $1 per lin. ft. additional for telford, $1 for rubble drain, 60 cts. per sq. yd. for cobble gutters; A. Brazos & Sons, Middletown, Conn., grading, $43,850, telford 40 cts. per lin. ft. additional, rubble drain $1, cobble gutters 80 cts. per sq. yd.

Town of Bridgewater, 11,835 lin. ft. graded telford road, including one 12-in., nine 15-in., four 18-in., one 20-in., six 24-in. and three 30-in. tile culverts, Goodman & Trumbull, Litchfield, Conn., $25,240 for grading, with $1 per lin. ft. extra for telford, rubble drain $1 per lin. ft.; A. Brazos & Sons, Middletown, Conn., $31,000 for grading, 40 cts. per lin. ft. extra for telford, $1 for rubble drain; B. D. Pierce, Jr., Co., Bridgeport, Conn., $33,000 for grading, 60 cts. for telford, $1 for rubble drain.

Town of Woodstock, 8,500 lin. ft. graded telford road, including one 20-in., one 15-in., one 12-in. and two 24-in. tile culverts: A. Brazos & Sons, Middletown, Conn., $12,325 for grading, with 40 cts. per lin. ft. extra for telford, rubble drain 80 cts. per lin. ft.; A. Vito & Co., Thompson, Conn., $15,775 for grading, 80 cts. extra for telford, rubble drain 85 cts. per lin. ft.; A. D. Bridge's Sons, Inc., Hazardville, Conn., $16,235 for grading, 60 cts. per lin. ft for telford, rubble drain $1 per lin. ft.

HARTFORD, CONN.—Plans for proposed State Road work have been received by the State Highway Commissioner from F. J. Kellogg, Engr., for 20,750 lin. ft. on the Danbury-Norwalk Road in the town of Danbury; from A. B. Alderson, Engr., 4,912 lin. ft. on the River Road in the town of Burlington; from E. C. Welden, Div. Engr., 10,000 lin. ft. on the Stafford Turnpike in the town of Somers, 7,300 on the Hartford Turnpike in the town of Vernon and 3,000 lin. ft. on the Hartford-Willimantic Turnpike in the town of Bolton.

NEW YORK, N. Y.—Bids will be received until 11 a. m., Aug. 31, by Cyrus C. Miller, Pres. Boro. of the Bronx, for completing the contract which was executed by W. F. Murray on April 8, 1908, and declared abandoned on May 16, 1910, for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches, placing fences, providing for necessary drainage, placing catch basins, manholes and steel rods in place, in West Farms Road, from Morris Park Ave. to the intersection of Westchester Ave. and former Main St., in the old village of Westchester, together with all work incidental thereto.

For regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Powers Ave., from 141st St. to St. Marys St., together with all work incidental thereto.

For regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Faile St., from Seneca Ave. to Lafayette Ave., together with all work incidental thereto.

For paving with asphalt blocks, on a concrete foundation, the roadway of Boscobel Ave., from Jerome Ave. to Washington Bridge, and setting curb where necessary, together with all work incidental thereto.

For repaving with asphalt blocks, on a concrete foundation, the roadway of Tinton Ave., from 149th St. to Fox St., and setting curb where necessary, together with all work incidental thereto.

For repaving with asphalt blocks, on a concrete foundation, the roadway of Ritter Pl., from Union Ave. to Prospect Ave., and setting curb where necessary, together with all work incidental thereto.

For repaving with asphalt blocks on a concrete foundation the roadway of Simpson St., from 167th St. to change of grade south of the same, and setting curb where necessary, together with all work incidental thereto.

For regulating and repaving with sheet asphalt pavement on a concrete foundation the roadway of Wendover Ave., from Washington Ave. to Park Ave. East, and setting curb where necessary, together with all work incidental thereto.

For regulating and repaving with sheet asphalt pavement on concrete foundations the roadways of East 140th St., from Third Ave. to Morris Ave.; East 141st St., from Third Ave. to Rider Ave.; East 142d St., from Morris Ave. to Rider Ave., and setting curb where necessary, together with all work incidental thereto.

For regulating and repaving with sheet asphalt pavement on a concrete foundation the roadway of East 135th St., from Brook Ave. to St. Anns Ave., and setting curb where necessary, together with all work incidental thereto.

TROY, N. Y.—Bids will be received by the Board of Contract and Supply, until Aug. 26, at 11 a. m., for the labor, services and materials required in paving, regulating, grading, curbing and improving Sixth Ave., between Rensselaer and Middleburgh Sts., pursuant to the provisions of an ordinance of the Common Council adopted July 7, and in accordance with specifications prepared by the City Engineer and approved by the Board of Contract and Supply on Aug. 12.

*OLEAN, N. Y.—Bids are asked by the Commissioners of Public Works until 7.30 p. m., Sept. 13, for a vitrified brick pavement on concrete foundation in Whitney Ave. For details, see advertisement in this issue.

*OLEAN, N. Y.—Bids were received by George H. Luther, Comr. of Public Works, at the office of the City Engineer on Aug. 15, for the construction of a vitrified brick pavement on concrete foundation in Green St., from the west line of Barry St. to the west line of Third St. The approximate amount of pavement to be laid is 4,000 sq. yds. and the curbing to be set is 3,000 ft. D. D. DUGAN, Olean, has been awarded the contract, at $9,998.

*SCARSDALE, N. Y.—Bids are asked until Sept. 12 by Frank Sibley, Town Clerk, for resurfacing with a bituminous macadam the highway known as the New York Post Road in the Town of Scarsdale. Details are given in the advertisement in this issue.

*HACKENSACK, N. J.—Bids will be received at the office of the Clerk of the Board of Chosen Freeholders of Bergen County, Court-house, Hackensack, until 2 p. m., Sept. 2, for the improvement of Essex St., from Terrace Ave., Hackensack, to the Saddle River. J. M. Blakeney is one of the Committee. Advertised last week.

*TENAFLY, N. J.—Bids are asked until 8 p. m., Sept. 14, by the Mayor and Council of the Boro. of Tenafly, for building a stone road in Tenafly, known as Sylvan Ave. or Boulevard, extending from the South Borough line of Tenafly to the southerly borough line of Alpine, N. J., a distance of 1.536 miles. William P. Eager is Mayor and Maurice E. Lindsay is Boro. Clk.

TRENTON, N. J.—Plans for resurfacing the Meadow Turnpike, the main entrance by automobiles to Atlantic City, have been approved by Frederick Gilkyson, State Road Comr., Trenton. The work will probably cost about $400,000.

NEWARK, N. J.—Bids will be received by Morris R. Sherrerd, Ch. Engr. Bd. of Street and Water Comrs. of Newark, until 3.30 p. m., Aug. 25, for paving Lake St., Garrabrant Pl. and Murray St.

NEWARK, N. J.—Bids are asked by the Committee on Roads and Assessments of the Board of Chosen Freeholders of the County of Essex, N. J., Court-house, Newark, until 10 a. m., Sept. 8, for grading and paving with telford pavement Pleasant Valley Way, extending from Bloomfield Ave., in the Boro. of Verona, to Mountain Ave., in the Town of West Orange, a distance of about four miles. Wallace Ougheltree is Dir. of the Committee.

*AVALON, N. J.—The date for receiving bids by the Avalon Boulevard Co., at the office of Charles R. Hall, Pres., 1415 Real Estate Trust Bldg., Broad and Chestnut Sts., Philadelphia, for the construction of 2.941 miles of gravel road, across the marsh land from Swainton to Avalon, Cape May County, and also for the construction of 1,558 lin ft. of bridging, including one steel draw span, across the various streams on the line of said roadway, has been postponed until Sept. 15. Bids were to have been opened on Aug. 30. This amends advertisement on page 54 of this issue. R. Fendall Smith is Engr.

WOODBURY, N. J.—The Gloucester County Board of Freeholders has awarded the contract for building the Woodbury-Mantua Road to J. F. SHANLEY CO., Arcade Bldg., Philadelphia, for $26,416, and the Auburn-Swedesboro Road to the FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia, for $44,105.

HARRISBURG, PA.—Bids will be received until 2 p. m., Sept. 16, by the State Highway Dept., Capitol Bldg., Harrisburg, for the reconstruction of National Road, Section 7, in Fayette County.

Bids will also be received at the same time and place for the reconstruction of the National Road in Brownsville Boro., Fayette County.

Bids for the reconstruction of National Road, Section No. 8, Somerset County, will be received at the above stated place and time. Joseph W. Hunter is State Highway Comr., at Harrisburg.

HARRISBURG, PA.—Bids were received by the city for asphalt paving on Aug. 16 72,795 sq. yds. and laying of 52,139 ft. of curbing. The bidders were: Barber Asphalt Paving Co., Land Title Bldg., Philadelphia; Central Construction & Supply Co., Harrisburg; Warner-Quinlan Asphalt Co., Filbert Paving & Construction Co., Pennsylvania Bldg.; Stucker Bros. Construction Co., and W. F. Martin. Bids for curbing were: Barber, granite, 78 cts.; steel bound granolithic, 45 cts; granolithic, 30 cts. Warner-Quinlan, granite, 77 cts.; steel bound granolithic, 54 cts.; granolithic, 45 cts. Central, granite, 74 cts; steel bound granolithic, 46 cts.; granolithic, 30 cts. The bids for the twenty-three sections of streets per sq. yd. follow: Fifth St., Reilly to Maclay, 100 yds., 6,150 ft. curbing, Barber, $1.53; Warner, $1.70; Central, $1.53; Filbert, $1.68. Harris St., Front to Third, 3,000 yds. paving, 2,050 ft. curbing, Barber, $1.45½; Warner, $1.70; Central, $1.53; Filbert, $1.68. Harris St., Fourth to Seventh, 250 yds., 3,250 ft. curbing, Barber, $1.53; Warner, $1.70; Central, $1.53; Filbert, $1.68. Hamilton St., Front to Seventh, 7,500 yds., 5,300 ft. curbing, Barber, $1.54; Warner, $1.70; Central $1.53; Filbert, $1.68. Sayford St., Sixth to Seventh, 725 yds., 1,060 ft. curbing, Barber, $1.49; Warner, $1.70; Central, $1.53; Filbert, $1.90. Wallace St., Verbeke to Reily, 2,240 yds., 1,320 ft. curbing, Barber, $1.53; Warner, $1.70; Central, $1.53; Filbert, $1.74; Chestnut St., 13th to Summit, 1,440 yds., 900 ft. curbing, Barber, $1.56; Warner, $1.74; Central, $1.56; Filbert, $1.85. Chestnut St., 15th to 17th, 444 yds., 320 ft. curbing, Barber, $1.63; Warner, $1.74; Central, $1.72; Filbert, $2. Chestnut St., 17th to 18th, 1,030 yds., 740 ft. curbing, Barber, $1.46; Warner, $1.74; Central, $1.57; Filbert, $1.78. Cameron St., State to Herr, 5,780 yds., 3,330 ft. curbing, Barber, $1.43; Warner, $1.74; Central $1.53; Filbert, $1.74. 18th St., Market to Derry, 6,880 yds., 4,500 ft. curbing, Barber, $1.51; Warner, $1.72; Central, $1.56; Filbert, $1.68. Boyd St., Second to Wallace, 2,450 yds., 3,600 ft. curbing, Barber, Trinidad Lake sheet asphalt, $1.51; Warner, Trinidad sheet asphalt, $1.70; Central, California or Pioneer sheet asphalt, $1.53; Filbert, sheet asphalt, $1.99. Boyd St., Wallace to Seventh, 470 yds., 530 ft. curbing, Barber, $1.52; Warner, $1.70; Central, $1.53; Filbert, $1.99. Currant St., Herr to Basin, 1,540 yds., 2,240 ft. curbing, Barber, $1.51; Warner, $1.70; Central, $1.53; Filbert, $1.99. Calder St., Sixth to Seventh, 1,860 yds., 1,250 ft. curbing, Barber, $1.58; Warner, $1.70; Central, $1.53; Filbert, $1.78. Front St., Herr to Calder, 3,480 yds., 1,970 ft. curbing, Barber, $1.57; Warner, $1.70; Central, $1.53; Filbert, $1.72. Evergreen St., Market to Derry, 2,700 yds., 1,670 ft. curbing, Barber, $1.52; Warner, $1.72; Central, $1.56; Filbert, $1.82. 15th St., State to Verbeke, 8,900 yds., 5,920 ft. curbing, Barber, $1.52; Warner, $1.72; Central, $1.[illegible]; Filbert, $1.68. Helena St., State to Norwood, 200 yds., 404 ft. curbing, Barber, $1.[illegible]; Warner, $1.77; Central, $1.76; Filbert, $1.[illegible]5. Herr St., from Pennsylvania R. R. to Cameron, 3,610 yds., 1,770 ft. curbing, Barber, $1.47; Warner, $1.70; Central, $1.5[illegible]; Filbert, $1.80. Kittatinny St., Crescent to Derry, 3,500 yds., 2,365 ft. curbing, Barber, $1.58; Warner, $1.72; Central, $1.56; Filbert, $1.80. North St., 15th to 16th, 666 yds., 480 ft. curbing, Barber, $1.49; Warner, $1.70; Central, $1.56; Filbert, $1.85. State St., canal to 10th, 2,055 yds., 1,000 ft. curbing, Barber, $1.43; Warner, $1.72; Central, $1.53; Filbert, $1.80; Stucker Bros., vitrified brick, Porter, 94 cts., best $1.99, Shawnut $1.96; curbing granite 88 cts., steel bound 67 cts., granolithic 50 cts.; W. F. Martin, vitrified brick, Peterson $1.93, Mack $2, Pine Grove $1.64, Wilsontown $1.97, Clengent $1.95; curbing, granite 75 cts., steel bound 55 cts., granolithic 35 cts.

HARRISBURG, PA.—We are officially advised that bids were received as follows at the office of the State Highway Department in the Capitol Building, Harrisburg, on Aug. 10, for the construction of 5,000 ft. of road, extending from the Coraopolis and Carnot Road eastwardly, in Moon Township, in the County of Allegheny: Donald McNeill, 308 Adelaide St., Pittsburg, $14,138, local stone bottom and Newcastle stone top; $16,136, local stone bottom and Amiesite top; Hassam Paving Co., 37 Wall St., New York, $15,650, slag or stone bottom and Hassam cement top. McLaughlin Contracting Co., 223 Fourth Ave., Pittsburg, $13,767, native stone bottom and limestone top; $17,742, native stone bottom and bitumen-macadam top. Ridge Bros. Co., 407 Fourth Ave., Pittsburg, $13,274, native stone bottom and Beaver or Lawrence County limestone top; $17,249, native stone bottom and bitumen-macadam top.

FORT DU PONT (Delaware City post-office), DEL.—Bids will be received here until 11 a. m., Sept. 12, for macadamizing a section of Port Penn Road, adjacent to Fort Du Pont, Del. Plans and specifications can be seen here. Address communications to the Constructing Quartermaster, Fort Du Pont, Delaware City, Del.

WILMINGTON, DEL.—Bids were received on Aug. 16, by the New Castle County State Highway Commission for building a macadam road in the County of New Castle, Lore Ave., distance of .393 miles; all or part of Lancaster Turnpike, between Red Clay Creek and Hocksession, about four miles; Telegraph Road, from Newark to Maryland State line, 1.6 miles; all or part of state road between Hare's Corner and Tybout Corner, about 3.69 miles; the road from Delaware City to St. George's, 2.557 miles, as follows: Juniata Paving Co., Empire Bdlg., Philadelphia, trap rock $14,602, limestone $16,068; Horrigan Contracting Co., Wilmington, granite $13,958, trap rock, $13,800, dyer stone $14,598, limestone $14,202; B. F. Wickersham Kennett Square, Pa., granite $16,600; J. E. Francis, Berks County, Pa., granite $18,237, limestone $18,847; John A. Clark, Wilmington, locksley stone $13,869, granite $14,230, trap rock $14,960, limestone $15,330; George M. Freck Philadelphia, trap rock $15,248, limestone $15,248.

State Road between Hare's Corner and Tybout's Corner, a distance of 3.69 miles, Juniata Paving Co., trap rock, $36,193, limestone, $39,032; Stewart & Donohue, trap rock $42,109, granite $41,270, limestone $40,324; S. E. Francis, trap rock $47,759, limestone $44,553; Harrigan Contracting Co., granite $35,762, trap rock $34,081, dyer trap $27,600, limestone $32,977; B. F. Wickersham, trap rock $45,915; John A. Clark, trap rock $36,600, granite $37,800, Schuylkill $38,400, Birdsboro $39,600, limestone $37,700.

Lancaster Turnpike between Red Clay Creek and Hockessin a distance of four miles, Corcoran Construction Co., West Chester, local stone $37,990; Joseph F. Bradley, Wilmington, $38,616; Nelson-Meredith Co., Atlantic City, $53,943; John A. Clark, $54,950; Harrigan Contracting Co., $54,936.

Road from Delaware City to St. Georges, a distance of 2.55 miles, Juniata Paving Co., trap rock $13,640, limestone $17,686; J. E. Francis, granite $21,314, limestone $22,243; Stewart & Donohue, Birdsboro trap $20,138, granite $19,422, limestone $20,138; John A. Clark, locksley stone $16,800, granite $17,400, Schuylkill $17,700, trap $18,300, limestone $18,517; Harrigan Contracting Co., granite $15,920, trap $15,558, dyers $16,694, limestone $16,850; B. F. Wickersham, granite $19,900, limestone $23,400; Joseph Anderson, granite $16,600.

Lore Ave., Brandywine Hundred, .393 mile, Harrigan Contracting Co., granite $5,025; B. F. Wickersham, granite $6,500.

The awards made by the Levy Courts are as follows: State Road, from Hares Corner to Tybout Corner, HARRIGAN CONTRACTING CO., trap rock, $19,000; Telegraph Road, HARRIGAN CONTRACTING CO., trap rock, $14,598; Lancaster Turnpike, HARRIGAN CONTRACTING CO.

LYNCHBURG, VA.—We are officially advised that bids were received as follows for the improvement of Taylor, Wise and 14th Sts.: Burnett Bros., $17,850; S. B. Benninger, $17,717; J. K. Ford Co., $17,013; I. T. Smith & Co., $17,116; Long & Miller, $18,236. H. L. Shaner is City Engr.

HUNTINGTON, W. VA.—The contract for paving two blocks on Maple Ave. has been awarded to HENRY WRIGHT at $1.40 per sq. yd.

HARRISON & DEAN received the contract for two blocks on Fifth Ave., at $1.42 per sq. yd.

MORGANTOWN, W. VA.—The Morgan County Court has awarded the contract for the paving of Holland Ave. to THONY PIETRO, at $15,328. The contract includes paving, sewering, curbing and sidewalks.

ST. PETERSBURG, FLA.—The city is considering several improvements to include street paving and sidewalk laying on various streets, it is said. W. B. Pope is Pres. of the City Council.

BIRMINGHAM, ALA.—It is reported that numerous roads are to be constructed here to cost about $25,000. Maury Nicholson is City Engr. and Edw. Haigler is Road Comr.

NASHVILLE, TENN.—The SOUTHERN ROOFING & PAVING CO., Nashville, has been awarded the contract for constructing about 7,600 ft. of combined granitoid sidewalk and curbing on Neil Ave., from Main St. to Marina St., at 13½ cts. a ft., and 4,500 ft. on Cephus Ave., from Buchanan to North Clay Sts., at 13 cts. a foot.

CLEVELAND, OHIO.—Bids will be received by the Board of Commissioners of Cuyahoga County, Ohio, until 11 a. m., Aug. 31, for the paving of Ridge Road No. 2 with Medina block stone, from Station 47 to Station 52. John F. Goldenbogen is Clerk of the Board.

TOLEDO, OHIO.—Bids will be received by the Board of County Commissioners of Lucas County, Ohio, in the office of the County Auditor in the Court House, Toledo, until 10 a. m., Sept. 2, for the improvement by grading, draining and macadamizing of a county road. Charles Sanzenbacher is County Audr.

COLUMBUS, OHIO.—The Board of County Commissioners of Franklin County on Aug. 15 awarded the contract for the improvement of the Hilliard and Dublin Road, a distance of 12½ miles, in Norwich and Washington Townships, to JOHN M. SNOUFFER, Columbus, at $25,221. The specifications call for water-bound macadam and must be completed by Dec. 16.

ZANESVILLE, OHIO.—The following bids were received by the State Highway Commissioner at the office of the County Commissioners in Zanesville for improving a roadway in Muskingum County: W. S. Gregg, Zanesville, Ohio, $12,166; A. EMERY & SON, Zanesville, Ohio (awarded contract), $12,150.

LAKEWOOD, OHIO.—Bids will be received by B. M. Cook, Village Clerk, at the Town Hall, Lakewood, until noon, Sept. 19, for furnishing the labor and materials necessary for paving Northland Ave., from Detroit St. to West Madison Ave.; Franklin Ave., from Ridgewood Ave. to Clarence Ave.

MILLERSBURG, OHIO.—The County Commissioners of Holmes County and the Ohio Highway Commissioners opened bids on Aug. 18 for the improvement of a road in Holmes County as follows: SPENCE BROS. CONSTRUCTION CO., 12409 Euclid Ave., Cleveland, $8,300 (awarded contract), and Lee & Griggs, Millersburg, $9,278.

STEUBENVILLE, OHIO.—The contract for paving Prospect St. has been awarded to the FLOTO BROS. CONSTRUCTION CO., at $14,867.

LOGAN, OHIO.—Bids will be received until Aug. 26 for grading and improving the Laurelville and Logan Road in Falls-Gore Township, after plans and specifications on file in the office of the County Commissioners. W. D. Brand is County Audr.

AKRON, OHIO.—The County Commissioners have awarded contract for the improvement of East Market St. to WILDES & DAVIDSON, at $15,515. The contract calls for stone curbing. The same contractors secured the contract for the improvement of Kenmore Road, at $35,588.

McCONNELLSVILLE, OHIO.—Contract for paving Kennebec Ave. and parts of East and Vine Sts. has been awarded to FRANK BECKWITH, at $6,588.

OAKLEY, OHIO.—We are officially advised that bids were received by Oscar Kosche, Village Clk., on Aug. 9, for furnishing all the material and labor in and about the improvement of Ebersole Ave., from Dawson Ave. to Carpenter Ave., by grading and macadamizing the roadway, setting combined cement curb and gutters, constructing drains, etc. Contract has been awarded to JOHN SNYDER, JR., of Norwood, Ohio, at $5,448.

YOUNGSTOWN, OHIO.—The County Commissioners and the State Highway Department opened bids on Aug. 9 for the improvement of a roadway in Mahoning County. All bids were above the estimate and the contract was not awarded. The work will be readvertised.

Bids will be received by the Board of County Commissioners of Mahoning County, until 11 a. m., Sept. 6, at the County Auditor's office, Youngstown, for furnishing the necessary labor and material to grade the hills on Canfield and Ellsworth Road in Section No. 14 of Ellsworth Township, Mahoning County. Will B. Jones is County Audr.

LAPORTE, IND.—The Commissioners of Laporte County have let a contract to W. B. HUTCHINSON for the construction of 7½ miles of gravel road in Laporte County.

DECATUR, IND.—The City Council has ordered plans and specifications on which bids will be asked for paving with brick about three miles of street.

INDIANA.—Bids for the construction of gravel roads in Indiana will be received as follows:

Sept. 6, at 2 p. m., by Commissioners of Sullivan County, at Sullivan, Ind., for the construction of a stone road in Cass Township. Benjamin C. Crowder is County Audr.

Sept. 6, at noon, by the Commisioners of Miami County, at Peru, Ind., for the construction of seven gravel roads. Charles Griswold is County Audr.

Sept. 7, at 10 a. m., by the Commissioners of Delaware County, at Muncie, Ind., for the improvement of highways in Mount Pleasant Township. Joseph E. Davis is County Audr.

Sept. 6, at 1.30 p. m., by the Commissioners of Washington County, at Salem, Ind., for the construction of one mile and 662 ft. of gravel road, known as Rinker's Creek Road. Samuel G. Ellis is County Audr.

VALPARAISO, IND.—The Commissioners of PorterCounty have awarded contract to ACKERMAN & CO., of Laporte, Ind., for the construction of a gravel road in Center Township.

INDIANAPOLIS, IND.—The Board of Public Works is asking for bids for street paving as follows: Central Ave., from Tenth to 19th Sts., with wooden blocks; asphalt, bituminous concrete or brick laid on 6-in. gravel concrete foundation. Blaine H. Miller is City Engr.

BLUFFTON, IND.—The County Commissioners have awarded contracts for three stone roads. The bids follow: Risley Stone Road, ABE HESHER, $5,550 (awarded contract); L. O. Bears, $5,799; Woodward Bros., $5,937; A. P. Tabor, $7,417; A. P. Addington, $5,950; Nash & Woodward, $6,144; I. J. Wolfcale, $6,997; Reeser & Maner, $7,250; Dan O. North, $6,572. Weisbrodt Stone Road, ABE HESHER, $5,000 (awarded contract); L. O. Bears, $5,749; Woodward Bros., $5,489; A. P. Tabor, $6,579; A. P. Addington, $5,700; I. J. Wolfcale, $5,993; Reeser & Maner, $6,492; Dan O. Worth, $5,982. Elick Stone Road, JACKSON & McCARTY, $4,680 (awarded contract); Woodward Bros., $4,773; Nash & Hoover, $4,994; I. J. Wolfcale, $5,175; Reeser & Maner, $5,268; Abe Hesher, $4,860; Dan O. North, $5,363.

RICHMOND, IND.—Plans are being prepared on which bids will be asked for widening, paving and curbing West Seventh, West Eighth and West Ninth Sts. H. H. Hammond is Pres. Bd. Pub. Wks.

CRAWFORDSVILLE, IND.—The Board of Public Works will soon ask for bids for paving and curbing Sloan St. and Wabash Ave. Bids will be asked on both brick and asphalt.

STOCKTON, ILL.—TRUNCH & DOWLING have secured contract for constructing 60,000 ft. of paving by the Steward Construction Co., of St. Louis, Mo.

EAST ST. LOUIS, ILL.—The City Council is considering boulevarding State St., moving the street car tracks to the center of State St., formerly known as the Belleville rock road, and making a roadway on either side with granitoid sidewalks, shade trees, etc. The measure has been referred to the Ordinance Committee, and if adopted the result will be a boulevard from the old city limits at 38th St., to the present city limits at Edgemont, 89th St. Estimated cost, $227,000.

BATAVIA, ILL.—We are officially advised that bids were opened on Aug. 16 for tar macadam paving, 26,612 sq. yds., 6,856 lin. ft. of combined curb and gutter and necessary drainage changes from plans prepared by Edgar K. Wilson, Consulting Engr., Sherwin Block, Elgin, Ill. The bids follow: INTEROCEAN PAVING & CONSTRUCTION CO., 108 Dearborn St., Chicago, $24,875 (awarded contract); John A. McGarry Co., Chicago, $25,500; A. E. Rutledge, Chicago, $25,675; George A. Peters, Sycamore, Ill., $26,157.

*ANTIGO, WIS.—Bids were received by G. O. Palmiter, City Clk., on Aug. 6, for furnishing material and doing all work necessary for paving four city blocks with macadam pavement. Contract has been awarded to W. H. Fisher at $8,674.

CHIPPEWA FALLS, WIS.—M. A. Posnanski has awarded to the CONCRETE CO. the contract to erect a new cement sidewalk on Bridge St., from Tom Weinberger's to Spring St. The walk is to be laid on iron stringers.

MILWAUKEE, WIS.—Bids were received on Aug. 19 for a brick pavement on the following streets: Michigan, from Jefferson to Lake Sts.; Seventh St., from Walnut to Germania St.; Lincoln Ave., from Forest Homes Ave. to 22d Ave.; and a portion of Park St. The bidders were as follows: The Badger Construction Co., Railway Exchange Bldg., Milwaukee, and R. M. McGlucken, Milwaukee. H. E. Briggs is Comr. Pub Wks.

IOWA CITY, IOWA.—The City Council has acted favorably upon a resolution providing for the construction of bitulithic pavement on the following streets: Bloomington St. between Capitol and Clinton Sts., Dubuque St., between Jefferson and Bloomington Sts., Linn, between Market and Jefferson Sts., Dodge, between College and Burlington; Jefferson, between Capitol and Clinton; Jefferson, between Clinton and Dubuque; Burlington, between Dubuque and Johnson; Linn, between Court and College; Linn, between College and Iowa Ave.; Dubuque between Bloomington and point east of Park Bridge; Dubuque, between Bloomington and Market; Evans, between Iowa Ave. and Market; Market, betwen Evans and east end of paving on Market St.

ST. PAUL, MINN.—The Park Commission, H. W. Topping, Pres., has awarded contracts for grading Sections 3 and 4 of Wheelock Parkway to CHRIST JOHNSON, of St. Paul, at $6,279, and KEOUGH BROS., St. Paul, at $7,375. Fred. Nussbaumer is City Supt.

CARROLLTON, MO.—We are officially advised that the city is considering the construction of brick paving and sewering. Estimated cost, $125,000. Bids will be asked about Aug. 27. W. H. Rosenburg is City Clk.

SAN ANTONIO, TEX.—The city is contemplating the paving of Roosevelt Ave. with asphalt to the Fair Grounds.

SHERMAN, TEX.—The Board of County Commissioners on Aug. 13 awarded to DENNIS McNERNEY the contract for work in the Dennison road improvement district, at about $250,000.

GUTHRIE, OKLA.—The city will build over 8,000 lin. ft. of cement sidewalks this fall.

HOQUIAM, WASH. — The ABERDEEN CONSTRUCTION CO. has been awarded contract by the Council for the improvement of Ninth St., at $24,094.

Contract for the improvement of Sixth St. and J St. has been awarded by Council to KOASAL & CO., at $25,053.

OCEAN PARK, CAL.—The Trustees have ordered the grading, paving and curbing of Club House Boulevard and the construction of cement gutters thereon; also the same work on Thornton St.; same work on Park Pl., and grading, paving and curbing Indiana Ave., and the construction thereon of two concrete culverts, a 24-in. vitrified pipe culvert, an 18-in. vitrified pipe culvert, three concrete bulkheads, one manhole and two storm water catch basins. G. G. Watt is City Clk.

PORTERVILLE, CAL.—The Board of Trustees, has ordered Putnam Ave., from the East property line of Division St., to the west property line of Grevilla St., graded and paved with asphalt pavement on an asphalt concrete foundation.

SAN DIEGO, CAL.—The city has ordered the paving of D St. for a distance of ten blocks and the construction of concrete curbing thereon; paving of Second St., for a distance of six blocks, and the construction of granite block gutters. J. F. Butler is County Clk.

The city has ordered the improvement of nine miles of streets, to be completed before the rainy season. E. M. Cappon, City Engr., is preparing the plans and grades, and bids for the work will be asked soon. There will be 76 blocks of asphalt paving; also the paving of the entire length of Fourth street.

LOS ANGELES, CAL.—D. D. CHAPMAN has been awardedcontract, at $5,454, for improving Ave. 52.

The County Board of Supervisors have let the following contracts: For the improvement of Foothill Boulevard, to RIFE, CAVE & FRENZEL CO., at $13,500 for grading and culverts complete on No. 1; $12,500 for No. 2. For oil and macadam paving No. 1: 10,164 tons, at $1.60 per ton; No. 2, 10,403 tons, at $1.65; Class A concrete, $16 per cu. yd.; Class B, $13; reinforcing steel, 6 cts. per lb.

OAKLAND, CAL.—Bids are asked by the Park Commission until 2 p. m., Sept. 8, for furnishing the necessary labor and materials for and in the construction of an asphalt roadway in Lakeside Park for the Park Department, city of Oakland. Henry F. Vogt is Secy.

OGDEN, UTAH.—Bids for building curb and gutter in Curb and Gutter District No. 102, being both sides of Adams Ave., 20th to 21st Sts., will be received by the City Recorder until 8 p. m., Aug. 29.

## MANUFACTURING PLANTS.

*(*Denotes that this work is advertised in Engineering News.)*

CHICOPEE FALLS, MASS.—George B. Allen, Mill Arch., 20 Ford St., Hartford, Conn., has plans completed for an addition and alterations to the factory of the Fiske Rubber Co., at Chicopee Falls, Mass. The company will erect a new building, four stories, 36 × 185 ft., with steam heat, automatic sprinklers, hydraulic freight elevator, a 900-HP. steam engine, two 250 HP. boilers. The two present buildings, 120 × 48 ft., 187 × 50 ft., each four stories, will be reinforced with steel construction. The architect will receive estimates and let all contracts.

HARRISVILLE, R. I.—It is announced that the E. K. Watson Co. will build a $75,000 mill near the old plant of the U. S. Worsted Co.

BRISTOL, CONN.—Unkelbach & Perry, Archs., 162 Main St., New Britain, Conn., have completed plans for a factory to be erected for the Wallace Barnes Co. in Bristol. It will be two stories, 60 × 125 ft., of brick, mill construction, with steel girders, gravel roof, sprinklers, plunger freight elevator.

PLAINVILLE, CONN.—Plans have been prepared by Unkelbach & Perry, Archs., 162 Main St., New Britain, Conn., for a warehouse to be erected in Plainville for the Trumbull Electric Mfg. Co. It will be built of brick, 40 x 100 ft., of heavy mill construction, three stories, with gravel roof, freight elevator and sprinkler system.

WILLIMANTIC, CONN.—The Windham Silk Co. is calling for bids for the construction of a 4-story brick building, 119½ × 37¾ ft., with saw tooth roof and slag covering. The plans are drawn by P. F. Sheldon & Sons, Providence, R. I.

BUFFALO, N. Y.—The Keystone Mfg. Co. has completed plans for a 2-story brick addition to its plant at 51 Chandler St.

ROCHESTER, N. Y.—Homer Strong, of Schenectady, N. Y., has purchased the Belting & Machinery Co.'s plant at 299 State St., and it is announced that he will enlarge the plant.

TRENTON, N. J.—We are officially advised that the John A. Roebling's Sons Co., Trenton, N. J., has awarded a contract to the RAYMOND CONCRETE PILE CO., 90 West St., New York, for placing concrete piles in the foundations of Wire Mill No. 2 at the Roebling, N. J., plant.

PITTSBURG, PA.—A permit has been issued to the A. M. Byers Co., 235 Water St., for the erection of a pipe mill on the Southside, on Bingham St., between Sixth and Eighth Sts. The specifications, approved by the Bureau of Building Inspection, state that six buildings are to be erected, costing $225,000. The buildings are classified as follows: Boiler-house, gas producer house, overhead conveyor building, pipe mill, covered runway and a warehouse. All the steel construction will be covered with corrugated iron, and the boiler house will be of brick, with a cement tile roof. The RITER-CONLEY MFG. CO., 615 Court St., will have charge of the steel work, while the Byers Company will build the foundations.

GREENVILLE, PA.—The Chicago Bridge & Iron Co. has purchased 25 acres of land and will move the Chicago plant here.

The Greenville Metal Products Co., which recently was organized to manufacture automobile parts, has increased its capital stock from $250,000 to $600,000.

ERIE, PA.—The Skinner Engine Works has had plans prepared and will receive bids for a 1-story foundry building, 63 × 100 ft., and a storehouse and shipping building, 20 × 200 ft., two stories, which it will add to its plant.

PHILADELPHIA, PA.—Plans for the erection of a $50,000 bakery and stable for the Hutchinson Baking Co. on the south side of Walnut St., east of 33d St., have been completed by J. C. Jeffries, Arch., 1001 Chestnut St. The building will be of brick and reinforced concrete, 98 × 166.10 ft. The bakery will have a capacity of 15,000 pies daily.

The CHARLES McCAUL CO., Tenth and Sansom Sts., has been awarded the contract for the erection of a cold-rolling mill for Henry Disston & Sons, at Tacony. The shop will be built of brick, 51 × 288 ft., at a cost of $52,000. The Disstons a short time ago gave the same firm the contract for a $60,000 addition to the jobbing department shops.

LENNI MILLS, PA.—George Brown's Sons, operating the Parkmount Mills at Lenni, Pa., are to increase the capacity of their plant by erecting an addition to the dye-house. The building will be of brick construction, 50 × 90 ft. The output of the mills consists of cottonades, cotton worsteds, etc., the equipment comprising 2,448 spindles and 100 looms.

CHARLEROI, PA.—It is stated that the Macbeth-Evans Glass Co. will erect an addition to its plant, to be used as a warehouse and finishing department for a special ware, which forms a large part of the production of the present plant. The improvements contemplate an expenditure of $25,000.

NEW BRIGHTON, PA.—The Dawes & Myler Works of the Standard Sanitary Mfg. Co., located at New Brighton, has let the contract for the erection of a 5-story addition to their plant to MARTSOLF BROS., New Brighton. The addition will be 120 x 95 ft.

HIGHLANDTOWN (Baltimore post-office), MD.—The Atlantic Broom Co., North St., is having plans prepared by Clifford & Stapbell, Evansville, Ind., for the proposed broom factory at Toone and Second Sts., Highlandtown, Md. The plans will call for two buildings to cost about $50,000, which will be one to five stories high, 64 × 117 ft. The Atlantic Broom Co. is a branch of the Southwestern Broom Co., Evansville, Ind.

BALTIMORE, MD.—The Baltimore Buggy Top Co., 700 Pennsylvania Ave., have commissioned McLaughlin Brothers, Inc., Archs., 916 Bolton St., to prepare plans and specifications for its proposed 3-story factory and display room building at the corner of Maryland Ave. and Mount Royal Ave. It will be 75 × 100 ft. The building will be used for the manufacture and display of products, and will have the facilities for contracting business.

CLARKSBURG, W. VA.—The Hazel-Atlas Glass Co., of Wheeling, W. Va., is seeking a site in Clarksburg to locate its plant, now at Washington, Pa. The company beside moving the Washington plant to this city will add equipment aggregating $500,000.

PARKERSBURG, W. VA.—The Baldwin Forging & Tool Co., of Columbus, Ohio, will move to this city soon and will erect a building, installing something like $50,000 worth of equipment in addition to what will be brought from Columbus.

SALISBURY, N. C.—Bids will be received until Sept. 15, for the construction of a brick plant, 120 x 60 ft., for the Hambly Mfg. Co. The building will be one story and of fireproof construction.

SPARTANBURG, S. C.—W. E. Burnett, of Spartanburg, Pres. of the Chesnee Mills, has ordered Joseph Sirrine, of Greenville, S. C., to complete promptly the plans and specifications for the proposed plant at Chesnee. The company is capitalized at $400,000.

BOYLES (Birmingham post-office), ALA.—The plans for the big shops of the Louisville & Nashville R. R. Co., at Boyles, the cost of which has been estimated at $700,000, have also been practically finished by W. H. Courtney, Ch. Engr., and as soon as the company decides whether to do their own contracting or to turn it over to some outside contractor, the work will be ready to start. It is expected that building will begin in the early fall as nearly all the grading has been completed and preliminaries finished.

KNOXVILLE, TENN.—The Standard Knitting Mills, having acquired real estate for enlarging the present plant, propose to erect thereon a brick knitting mill to cost about $50,000, with a daily capacity of 600 dozen men's underwear garments.

HAMILTON, OHIO.—Fred. Berk, Pres. of the H. P. Deuscher Co., has announced that arrangements have been completed for rebuilding the agricultural implement plant destroyed in a recent fire. Work will begin within the next two weeks and in the meantime a plant will be leased in this city to carry on the company's business. The actual loss by fire is estimated by the officers at $100,000 with $60,000 insurance.

CINCINNATI, OHIO.—The Cincinnati Traction Co. expects to build car storage houses and repair shops on a 6-acre tract of land on Baltimore & Ohio Railroad and Mitchell Ave., Cincinnati, Ohio. Walter A. Draper, Cincinnati, is Secy.

CLEVELAND, OHIO.—The Ferro Machine & Foundry Co. will spend over $15,000 for a factory at Hubbard Ave. and 66th St.

GARY, IND.—The American Sheet & Tinplate Co. has awarded the contract to the WILLIAM TOD CO., of Youngstown, Ohio, for the erection of 16 sheet mills and four jobbing mills at Gary, Ind. The WHEELING MOLD & FOUNDRY CO., with offices in the Farmers' Bank Bldg., Pittsburg, will make all the steel castings for the new mills at Gary, the contract being worth about $500,000. Manufacturers of electric generators and cranes in Pittsburg will probably get the contracts for the machinery of the new mills. With the contracts for mill buildings awarded to the AMERICAN BRIDGE CO., the Gary plants of the American Sheet & Tinplate Co., will eventually have a total of 140 sheet and tin mills and will have a total production of 200,000 tons a year.

FORT WAYNE, IND.—The S. F. Bowser Oil Tank Co. has increased its capital stock to $800,000 and has ordered plans on which to receive bids for the construction of a large addition to and improve the old plant.

REMINGTON, IND.—The Remington Farmers' Elevator Co. will soon ask for bids for the erection of a grain elevator. L. P. Camwell is Pres.

VEEDERSBURG, IND.—The Farmers' Milling & Elevator Co., recently incorporated, has ordered plans on which to receive bids for the erection of an elevator and flour mill. John W. Spencer, Walter Cook and Charles Moffett are Dirs.

ANDERSON, IND.—The Anderson Knife & Barworks Co. will ask for bids for the construction of a factory building on the site of the building recently destroyed by fire, as soon as the insurance is adjusted and new plans completed.

PENNVILLE, IND.—The Pennville Elevator Co., recently organized and incorporated, is asking for bids for the construction and equipment of a large grain elevator in Pennville. Ransom Smith is Pres.; Charles E. Artman, Secy.

VINCENNES, IND.—Chris. Hoffman & Son's flour mill, recently destroyed by fire, will be rebuilt. Plans are being made.

PERU, IND.—The Otis Elevator Co., 17 Battery Pl., New York, has ordered plans for the construction of an addition to its plant at Peru. The building will be of brick and with sufficient floor space to employ 300 additional workmen. Bids will be called for as soon as the plans are completed.

MONTICELLO, IND.—D. H. Burnham & Co., Archs., 9 Jackson Boulevard, Chicago, have let the masonry to YOUNG & HODSHING, Monticello, Ind.; carpentry, roofing and sheet metal work to ROTH P. IRELAND, Monticello, Ind., for a 2-story building, 76 × 100 ft., at Monticello, Ind., for the Chicago Thread Mfg. Co. The building will be of brick and mill construction.

MONTPELIER, IND.—The National Steel Casting Co. is preparing to let a contract for the erection of an addition to its casting mill here.

INDIANAPOLIS, IND.—The Great American Automobile Co. has ordered plans for the construction of a factory plant on a site near the Speedway. Samuel Quinn, Jr., C. N. Lee, L. H. Van Briggle and H. Davis are the Directors.

The Progress Laundry Co., 111 North New Jersey St., has let a contract to the HOME BUILDING & REALTY CO. for the erection of a laundry building on East Market St., at $40,000. Bids will soon be asked for machinery and equipment. Estimated cost, $25,000. George W. Bedell, Law Bldg., Indianapolis, is Arch.

PONTIAC, MICH.—The Vulcan Gear Co., 820 West Warren Ave., Thomas F. Ahern, Mgr., 1514 Ford Bldg., Detroit, contemplates erecting a factory building. Architects have not been selected.

DETROIT, MICH.—Geo. D. Mason, 80 Griswold St., is taking figures on a machine shop, 100 × 100 ft., for John B. Corliss, Jr., 34 Canfield Ave. West. The building is to be of stock brick, Bedford stone, with composition roof and electric fixtures.

E. W. Gregory, 1646 Woodward Ave., is taking figures on a new 3½-story factory building, 95 × 121 ft., for the Princess Mfg. Co., Charles W. Moore, Mgr., 215 Larned St. The building is to be of stock brick, Bedford stone, with composition roof, structural iron and electric fixtures. Cost, $28,000.

Louis Kamper, Fine Arts Bldg., is preparing plans for a 4-story factory, 254 × 61 ft., for the Universal Motor Truck Co., C. H. Haberkorn, Mgr., 201 Orchard St. The building is to be constructed of reinforced concrete. Cost, $50,000.

Albert Kohn and E. Wilby, Archs., Trussed Concrete Bldg., are preparing plans for a 1-story and basement automobile garage, 50 × 200 ft., for the Detroit Motor Sales Co. The building is to be constructed of pressed brick with composition roof, galvanized iron skylight, structural iron, cement floors and hardwood finish. Cost, $22,000.

GRAND RAPIDS, MICH.—Silvorman Bros., Third Ave. and P. M. R. R., are having plans prepared by Pierce Lindhaut, Ashton Bldg., for a 3-story and basement factory, 50 × 100 ft. The building is to be of brick and mill construction. Cost, $20,000.

Osgood & Osgood, Widdicomb Bldg., are preparing plans for a brick 3-story factory, 115 × 66 ft., for the Valley City Milling Co., William S. Roe, Mgr. Cost, $24,000.

CHICAGO, ILL.—Huehl & Schmid, Archs., 163 Randolph St., are preparing plans for a machine shop, 30 × 120 ft., at Elston and Wabansia Aves., for the George Whiting Co., 1413 West North Ave. It will be of brick construction, with gravel roof.

McCARTY BROS., general contractors, 134 Monroe St., have sublet steam heating to WILLIAM LEES; iron work to HOLMES-PYOTT CO.; plastering to GEORGE SUTTON, and electric work to WHITE CITY ELECTRIC CO., for a 3-story building at 17 North Desplaines St., for Sewell & Clapp Co.

Postle & Mahler, Archs., 204 Dearborn St., are receiving estimates on a 1-story building, 60 × 80 ft., to be built at 37th and Morgan Sts., for Spoor & Leonard. It will be of concrete and brick construction, with a 100-ft. brick smoke stack, and a 150-HP. steam power plant.

Postle & Mahler, Archs., 204 Dearborn St., have also let masonry and carpentry to FOSTER & FRASER, iron work to HOLMES-PYOTT & CO., and plumbing to K. L. ROLLER, for a 1-story factory, 100 × 120 ft., to be built at 37th and Wall Sts., for the H. P. Smith Paper Co. It will be of brick mill construction.

WHEATON, ILL.—H. R. Wilson & Co., 218 LaSalle St., Chicago, Ill., Archs., are receiving estimates for a 3-story building, 40 × 120 ft., to be erected at Wheaton, Ill., for the Aurora, Elgin & Chicago Electric R. R. Co., 256 Fifth Ave., Chicago. It will be of brick construction, tile roof and steam heating.

STEGER, ILL.—John Ahlschlager & Son, Archs., 40 La Salle St., Chicago, have completed plans for a 3-story building, 60 × 60 ft., to be built at Steger, Ill., for the Steger Piano Co. It is to be of brick construction, sprinkler system.

CHICAGO, ILL.—The George Whiting Co., manufacturer of punches and shears, 1413 West North Ave., has purchased the vacant land at the northeast corner of Elston and Wabansia Ave., 200 × 150 ft., for about $12,000. The company will erect a machine shop at a cost of $30,000, it is stated.

HEINEMAN, WIS.—Plans are being made by the Heineman Lumber Co. for rebuilding its large plant at Heineman, which was destroyed by fire recently.

MILWAUKEE, WIS.—Plans have been submitted to E. V. Koch, Building Inspector, by the J. J. Orton Estate, for a 3-story structure to be erected at the southeast corner of Sycamore and Second Sts., and to be used for store and light manufacturing purposes. Cost, $45,000.

O. C. Uehling, Arch., Wells Bldg., Milwaukee, Wis., is architect for a factory and warehouse building for the Phoenix Knitting Co., to be erected in addition to the present plant at Broadway and Chicago St., Milwaukee. The building will have six stories, and will be 80 × 120 ft., of reinforced concrete and brick construction, with heating and ventilating systems, electric elevators, sprinkler system. The lower part is to be used as a dye room, the upper portion for manufacturing and the intermediate floors for stock rooms. Cost, $80,000.

MILWAUKEE, WIS.—A building permit has been issued to the National Brake & Electric Co. for the erection of a shop to cost $70,000. H. J. Esser, 82 Wisconsin St., Milwaukee, is Arch. FRANK LUENZMANN CO., 1912 Prairie St., Milwaukee, carpenters; WISCONSIN BRIDGE & IRON CO., Colby-Abbott Bldg., Milwaukee, iron contractors.

GREEN BAY, WIS.—MICHAEL TILKENS has been awarded the contract for the erection of the plant of the Willow Grass Rug Co. The plant will consist of three buildings of reinforced concrete brick, 50 × 200, 30 × 100 and 42 × 200 ft. Another building, 56 × 500 ft., will be of frame construction.

EAU CLAIRE, WIS.—The contract for the erection of the plant to be built by the International Harvester Co. here, has been awarded to the HOEPPNER-BARTLETT CO., of Eau Claire. The approximate cost is $100,000.

GRINNELL, IOWA.—Albert Kahn and E. Wilby, Archs., Trussed Concrete Bldg., Detroit, Mich., have prepared plans for an addition to the factory plant of the Spaulding Mfg. Co., F. E. Spaulding, Mgr. The owners will buy all materials and build by day work. The building is to be of reinforced concrete and brick construction, with tar and gravel roof, metal skylight, structural and architectural iron, cement floors and electric fixtures.

SEATTLE, WASH.—Estimates and preliminary plans are now being made by W. D. Van Siclen for the concrete building to be erected for the Wenatchee plant of the Centennial Milk Co., of this city, which was recently destroyed by fire. Details have not yet been decided upon, but officers of the company state that the plant complete will cost about $100,000.

The Berlin Machine Works, of Berlin, Wis., is arranging to erect a plant in Seattle to handle its Western business. The plant will cover several acres and involves an expenditure of $600,000. The plan is to build a plant for the making of machinery that the company has been shipping from its Beloit factory and distributing in the Pacific Coast states and British Columbia.. The Berlin Machine Works proposes to erect a $600,000 manufacturing plant. The plant will be a duplicate of one recently erected by the Berlin Machine Works at Ontario. When completed, it will employ about 400 men.

STOCKTON, CAL.—D. H. Steinmetz, Mgr. of the Standard Lumber Co., of Tuolumne, has selected a site at the corner of Park and Sacramento Sts., alongside of the Southern Pacific main line, for a factory. Work will begin at once on a 2-story building, which will cover most of the site. The rough material is to be supplied by the Standard Company, which has mills in Tuolumne County.

BERKELEY, CAL.—The contract for the construction of a workshop for teaching carpentry and blacksmith work and a building to contain the offices for the department of animal industry has been let by the Regents of the University of California to the STANDARD CONSTRUCTION CO., 503 Market St., San Francisco, at $11,116. The bid of this company was accepted after all bids were rejected. They were reopened, the University affecting a saving of $600.

RIVERSIDE, CAL.—J. E. Winship, will erect a lumber yard and planing and saw mill on Magnolia Ave., to be 40 × 200 ft. It will have a cement floor, a grain storehouse. A grain crushing mill will be erected also.

SAN BERNARDINO, CAL.—Myzelle & Imhoff Co. will erect a brick and concrete planing mill and box factory to replace one burned recently.

PORTERVILLE, CAL.—MURPHY & LAIDLAW have secured contract to erect a packing-house for the Piano Packing Co., to be erected of concrete and to be equipped with machinery. The company has plans for a similar plant to be erected at Lois Station.

PLACENTIA, CAL.—The Placentia Fruit Co. is having plans prepared for a 1-story packing house, 150 × 200 ft. It will have cement foundation and floor, and will be equipped with cold storage facilities.

BAKERSFIELD, CAL.—The Union Oil Co., of this city, has plans prepared for an addition to its refinery in the Kern River field. New machinery and equipment will be installed.

EL CENTRO, CAL.—The Imperial Valley Mercantile Co., of El Centro, will erect a metal mill here. R. W. Davis will erect a concrete dairy building with complete equipment here.

YUBA CITY, CAL.—The Silica Brick Co. has been incorporated in Sacramento County for $250,000 to erect a factory on the Hagin grant for manufacturing bricks. It will have a capacity of 140,000 bricks a day when completed. The Directors are B. F. Walton, Yuba City, and George W. Pierce, Davis.

CAMPBELLTON, N. B.—The work of reconstructing the round-house and shops of the Intercolonial Ry., at Campbellton, which were recently destroyed by fire, will be commenced without delay. It is estimated that at least $250,000 will be spent and will be called for at once. D. Pottenger, Moncton, N. B., is Gen. Mgr.

MONTREAL, QUE.—The George Anderson Co., English manufacturers of cranes and stove machinery, will build a factory here, and expect to occupy it in May next. It expects to build shops in some Western Ontario town, also.

The Cleveland Bridge & Engineering Co., of Darlington, England, will locate shops in Montreal.

TORONTO, ONT.—The Nasmith Co., Ltd., will erect a 2-story bread manufactory on Duchess St., near Sherbourne St., to cost $60,000.

ORILLIA, ONT.—The Canada Refining & Smelting Co. will locate here, employing from 50 to 75 men. The town will give the company a site of 9½ acres, light at $1 per lamp, and power at $16 HP. per year of 24 hours a day.

HAMILTON, ONT.—The Oliver Chilled Plow Co., of South Bend, Ind., is receiving bids for its Canadian plant to be built here. Through Prack & Pessin, Engrs., of Pittsburg, who have established a local office in Hamilton. The plant will comprise foundries and machine shops, forge and blacksmith shops, woodworking and paint shops, power-house, warehouse and office building; also a concrete dock, 100 × 800 ft.

ESQUIMALT, B. C.—The British Columbia Marine Railway Co. has notified the Canadian Government at Ottawa, Ont., that it proposes to put in a suitable shipbuilding plant and will submit a tender for the construction of a Canadian cruiser of the British type at Esquimalt. The British Columbia Marine Railway Co. is to move its Vancouver shipyards in the near future from their present location to a site selected near the Second Narrows, where a larger slipway will be put in and the plant is to be increased, new machinery and equipment being ordered.

## MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

FIRE ALARM SYSTEM.—San Diego, Cal.—See item under Water Supply—Irrigation.

CONCRETE PIER, DREDGING, ETC.—Montreal, Que.—See item under Water Supply—Irrigation.

*INSULATED CABLE.—Bids are asked by Lieut.-Col. Harry Taylor, New London, until Sept. 23, for furnishing insulated cable.

*DREDGING.—Galveston, Tex.—Bids are asked until noon, Sept. 19, by Maj. G. P. Howell, Corps Engrs., U. S. A., for dredging Texas City Channel, Tex.

AUTOMOBILE.—New York, N. Y.—Bids will be received by the Park Board until 3 p. m. Aug. 25, for furnishing and delivering one automobile, for parks, Boro. The Bronx.

*DREDGING.—Mobile, Ala.—Bids are asked by Maj. H. Tervey, Corps Engrs., U. S. A., Mobile, until 11 a. m., Sept. 23, for dredging in harbor at Mobile.

DREDGING.—Norfolk, Va.—Bids are asked until noon, Sept. 20, by Lieut.-Col. Mason M. Patrick, Corps Engrs., U. S. A., Norfolk, for dredging the channel to Newport News.

*DREDGING.—Norfolk, Va.—Bids are asked by Lieut.-Col. Mason M. Patrick, Corps Engrs., U. S. A., Norfolk, until noon, Sept. 19, for dredging Thimble Shoal.

DITCH.—Nevada, Iowa.—All bids were rejected on Aug. 15 by F. G. Dunahugh, County Audr., for constructing Boone-Story Ditch No. 3, about 71,744 ft. of 6 to 30-in. tile. New bids are asked until noon, Sept. 6.

PIPE.—Brooklyn, N. Y.—Bids will be received by the Commissioner of Water Supply, Gas and Electricity until 2 p. m., Sept. 1, for furnishing and delivering vitrified salt glazed, stoneware pipe, Boro. Brooklyn.

*OIL HOUSE.—Fort Hancock, N. J.—Bids are asked until noon, Sept. 19, by Lieut. Frederic H. Smith, Constructing Q. M., U. S. A., for the construction of a corrugated iron oil-house.

LUMBER AND TRIM.—New York, N. Y.—Bids are asked by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m. Sept. 1, for furnishing and delivering lumber and trim.

SANITARY APPARATUS. — Cleveland, Ohio.—Bids are asked by Charles Orr, Clk., Bd. of Education, until noon, Sept. 6, for installing sanitary apparatus in the Harmon and Sterling schools.

BREAKWATER.—Ottawa, Ont.—Bids are asked by R. C. Desrochers, Secy. Pub. Wks. Dept., Ottawa, until Aug. 31, for the construction of a breakwater at Bare Point, in the harbor of Port Arthur, Ont.

DREDGE.—Ottawa, Ont.—Bids are asked by R. C. Desrochers, Secy. Pub. Wks. Dept., until Sept. 12, for the construction of a 1-yd. dipper dredge for Prince Edward Island.

WIDENING RIVER, ETC.—Marion, Ohio.—The FOOPEY DREDGING CO., of Fort Wayne, Ind., has been awarded contract for widening, deepening and straightening the Little Scioto River near Marion, at $65,500.

*RIPRAP, JETTIES.—Portland, Me.—Bids are asked by Lieut.-Col. George A. Zinn, Corps Engrs., U. S. A., 537 Congress St., Portland, until noon, Sept. 19, for the construction of riprap jetties in Saco River, Me.

REPAIRS TO FERRYBOAT.—New York, N. Y.—Bids will be received by the Commissioner of Docks until noon, Sept. 2, for Contract No. 1240, for furnishing all the labor and materials required for repairs to the municipal ferryboat "Queens." Calvin Tomkins is Comr.

MARBLE.—New York, N. Y.—Bids will be received by the Park Board until 3 p. m., Sept. 1, for furnishing and delivering pink bond Tennessee marble for the American Museum of Natural Hostory, Boro. Manhattan.

DITCH.—Bloomington, Ind.—The Commissioners of Monroe County will soon ask for bids for the construction of a large public drainage ditch in Washington and Bean Blossom Townships.

*DREDGING.—Baltimore, Md.—Bids are asked by Col. Thomas L. Casey, Corps Engrs., U. S. A. Baltimore, until 1 p. m., Sept. 20, for dredging in Southwest Baltimore Harbor and Curtis Bay Channel, Md.

FIRE-HOSE.—Los Angeles, Cal.—Bids will be received until Aug. 30 by the City Clerk for 12,000 ft. of 2½-in. multiple or solid woven, or double jacket cotton, rubber-lined fire-hose.

*METAL SHELVING.—Trenton, N. J.—Bids are asked until 3 p. m., Sept. 23, by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., for metal shelving, etc., in the extension to the U. S. post-office and court-house at Trenton.

DRAINAGE DITCH.—Princeton, Ind.—The County Commissioners have taken steps toward letting a contract for a drainage ditch six miles long and the strengthening, widening and dredging of Kreg Creek, east of Oakland City.

PLAYGROUND APPARATUS.—New York, N. Y.—Bids will be received by the Park Board until 3 p. m., Sept. 1, for all labor and materials required for furnishing and erecting playground apparatus in various parks.

*DREDGE WORK.—Des Moines, Iowa.—Bids are asked until 9 a. m., Sept. 12, for river improvement for flood protection along the Des Moines and Raccoon rivers in Des Moines. The work includes 650,000 cu. yds. of excavation; also levee construction, and will be let in part or whole. Neal Jones is City Clk. For details, see advertisement in this issue.

*DREDGING.—Washington, D. C.—Bids are asked by Lieut.-Col. W. C. Langfitt, Corps Engrs., U. S. A., 920 17th St., N. W., Washington, until noon, Sept. 22, for dredging in Potomac and Anocostia Rivers near Washington.

CRIB PROTECTION.—Racine, Wis.—The Lighthouse Board has awarded to GILLEN DOCK & DREDGE CO. contract for placing 1,800 to 2,000 tons of stone around the lighthouse crib stationed at Racine reef, to protect the crib from high seas.

EXCAVATING CHANNEL.—Lincoln, Neb.—Bids are asked by Sanitary Drainage District No. 1 of Lancaster County, Lincoln, until 2 p. m., Aug. 29, for the excavation of a new channel for Antelope Creek, about 3,300 cu. yds. of clay. K. D. Cunningham is Secy.

DRAINAGE DISTRICT.—Helena, Ark.—The Survey for the Beaver Bayou Drainage District, Phillips County, has been completed and the plans are now being prepared. The area of the district is 50,000 acres. Wellford White is Secy., Helena. Winters & Dove are Engrs., Fort Smith, Ark.

*VACUUM HEATING SYSTEM.—Washington D. C.—Bids are asked by the Department of the Interior until 2 p. m., Sept. 12, for the installation of a vacuum heating system for the Freedmen's Hospital and Howard University buildings in Washington.. Jesse E. Wilson is Asst. Secy.

LUMBER.—New York, N. Y.—Bids are asked until 11 a. m., Aug. 30, by the Board of Water Supply, New York, for Contract V., for yellow pine lumber delivered at Breakneck Siding, between Dutchess Junction and Cold Spring, and at Cornwall-on-Hudson, N. Y.

WHARF.—Santa Monica, Cal.—H. C. Burmister, Ocean Front and Navy Ave., has been granted a permit by the City Trustees to build a concrete wharf at the foot of Navy St., to be 40 × 500 ft. long, to be used as a promenade, work to begin within four months.

DITCH.—Louisville, Ky.—Bids were opened Aug. 1, at the office of the Clerk of the Fiscal Court, for constructing a portion of the Mill Creek drainage ditch, and the contract has been awarded to C. H. DISHMAN, of Henderson, Ky., at $23,500. F. S. Creelius is Engr., Equitable Bldg., Louisville.

*DREDGING.—Washington, D. C.—Bids are asked by Lieut.-Col. W. C. Langfitt, Corps Engrs., U. S. A., 920 17th St., N. W., Washington, until noon, Sept. 22, for dredging in Potomac River at Alexandria and at Lower Cedar Point, Md., and in Upper Machadoc and Dymers Creeks, Va.

LEVEE.—New Orleans, La.—Bids were received on Aug. 9 by Capt. Robt. R. Ralston, Corps Engrs., U. S. A., New Orleans, for constructing about 26,000 cu. yds of earthwork in the Lake Borgne Levee District. The bid of P. H. Lyons, of Nairn, La., at 16.99 cts. per cu. yd. was recommended for acceptance.

RECONSTRUCTING DAM, ETC.—New York N. Y.—Bids are asked by he Park Board until 3 p. m., Sept. 1, for reconstructing and strengthening by means of a concrete buttress, with rustic rock facing, the dam across the Bronx River at the foot of Bronx Lake in the Zoological Park, City of New York.

*DAM, CONDUIT, ETC.—Bids are asked by the New Haven Water Co., 100 Crown St., New Haven, until noon, Sept. 8, for earth dam with concrete core-wall and spillway, 3,500 cu. yds. of rolled earth embankment, and about 900 cu. yds. of concrete. For details, see advertisement in this issue.

CANALS.—Osceola, Ark.—Bids have been received at the office of the County Clerk, at Osceola, for the construction of 75 miles of drainage canals, approximately 3,170,000 cu. yds. and the contract has been awarded to KOCHITZKY & CRUMPACKER, of Cape Girardeau, Mo., at 7.34 cts. per cu. yd. The contract includes construction of about 20 bridges.

PIERS AND SHEDS.—Philadelphia, Pa.—Bids were opened as follows on Aug. 11 by the Department of Public Works for new piers and sheds at the House of Correction: Franklin Eyre & Co., $11,187; Costello Co., $11,739; Filbert Paving Co., $12,162; Latta & Terra Co., $12,955; American Paving Co., $13,255, and Armstrong & Latta, $14,915.

*DREDGE, ETC.—Vicksburg, Miss.—Bids for steel hull self-propelling hydraulic dredge, steel pontoons and pipe line, and also for the component groups thereof, including steel dredge hull, steel pontoons and pipe line upper works, steam plant, propelling machinery, electric plant, pumping engine, condenser plant, and evaporator, and pump, suction pipe and ladder, cutter head, gear and engine, winches and refrigerating plant, will be received by Capt. Clarke S. Smith, Corps Engrs., U. S. A., until noon Oct. 20.

*DREDGING.—Erie, Pa.—Bids were received by Col. W. L. Fisk, Corps Engrs., U. S. A., Federal Bldg., Buffalo, on Aug. 16, for dredging entrance to channel and basin at Erie Harbor. The bids follow: Edward Bros. Dredging Co., Sault Ste Marie, Mich., $84,530; Great Lakes Dredge & Dock Co., Chicago, Ill., $42,900; Daly & Hannan Dredging Co., Ogdensburg, N. Y., $62,650; Buffalo Dredging Co., Buffalo, $60,860; Duluth Superior Dredging Co., Duluth, Minn., $53,700; Samuel O. Dixon, Milwaukee, Wis., $43,080.

TUNNEL CUT-OFF.—Canaan, N. Y.—The DOMINION CONSTRUCTION CO., 165 Broadway, New York, has been awarded the contract for the construction of a double track tunnel and approaches on the Boston & Albany R. R., near Canaan, N. Y., and also for the construction of the Durham Cut Off at Durham, N. H., on the Boston & Maine R. R. F. B. Freeman, Boston, Mass., is Ch. Engr., B. & A. R. R. Co.; J. P. Snow, Boston, is Ch. Engr., B. & M. R. R. Co.

PIERS.—Philadelphia, Pa.—Bids have been received as follows by the Acting Director of the Department of Wharves, Docks and Ferries for the construction of a pier and sheds on the Delaware River, at the House of Correction: Franklin Eyre & Son, $11,187; Costello & Co., $11,739; Filbert Paving & Construction Co., Pennsylvania Bldg., $12,162; Latta & Terry Construction Co., Pennsylvania Bldg., $12,955; American Pav- & Construction Co., $13,255; Armstrong & Latta, $14,915.

*HOISTING APPARATUS.—New York, N. Y.—Bids are asked until noon, Sept. 8, by the Armory Commission, Albany, N. Y., for the installation of a 3 HP. direct connected hoisting apparatus to operate present freight elevator and a 2 HP. motor to operate lath and buffin wheel at the New York State Arsenal, Seventh Ave. and 35th St., New York. Specifications may be consulted and blank forms of proposal secured at the office of the Armory Commission, Capitol, Albany, and at the New York State Arsenal, Seventh Ave. and 35th St., New York. F. A. McNeely is Secy. Comn.

MINE SHAFTS, ETC.—Thomas, W. Va.—The Davis Coal & Coke Co. has planned to expend about $1,500,000 for the installation of equipment and development of new mines. Three shafts and one drill mine are now being opened near here and will be in operation early next summer. All plants will be fireproof and equipped with modern machinery. In addition, several spur tracks are to be laid. The output will be increased from 8,000 to 12,000 tons daily. To accommodate the increased number of men to be employed, 250 miners' shacks are to be erected, the contracts for part of which have been let.

PARKING.—Baltimore, Md.—The County Commissioners have awarded to the RIDGE BROS. CO., a contract for the parking around the new Soldiers and Sailors Memorial Hall at $20,353. In the contract it is stipulated that the work is to be completed by Oct. 7. There will be four entrances to the building, one each from Fifth Ave., Grant Boulevard, Natalie Ave. and Bayard St.. The Fifth Ave. gateway will be 24 ft. wide. The Natalie St. entrance will be a driveway in a half circle from the street to the west door of the building. On the Bayside St. side two flights of steps about 15 ft. wide will lead up to the level to the building, and retaining walls are to be built along Grant Boulevard and Natalie St.

ORDNANCE. — Washington, D. C.—Bids were received as follows on Aug. 12, by the Chief of Ordnance, War Dept., Washington, for furnishing ordnance supplies, as follows: 6-in. gun forgings: Midvale Steel Co., Philadelphia, $1.87 per lb.; Bethlehem Steel Co., South Bethlehem, Pa., $1.75.. 4.7-in. gun forgings: Midvale Steel Co., 88 cts.; Bethlehem Steel Co., 95 cts. 3-in. gun forgings: Midvale Steel Co., 88 cts.; Bethlehem Steel Co., 80 cts. 14-in. gun forgings: Midvale Steel Co., 21 cts.; Bethlehem Steel Co., 21 cts. 600 10-in. c. i. shell: Richmond Iron Works, Richmond, Va., $24.35 each; Midvale Steel Co., $39.50; Bethlehem Steel Co., $41.86; Tredegar Iron Works, Richmond, Va. $25; Standard Foundry Co., Buffalo, N. Y., $25.25.

*DREDGE.—Philadelphia, Pa.—Bids were received on Aug. 10, at the U. S. Engineer office, 815 Witherspoon Bldg., Philadelphia, for constructing steel twin-screw suction hopper dredge for Southwest Pass, Mississippi River. The bids follow: (a) With Scotch type boilers; (b) alternate prices with water-tube boilers, forced draft and natural draft: Fore River Shipbuilding Co., Quincy, Mass., (a) $448,400, (b) $448,400 and $455,800, respectively. Time, 12 mos. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., (a) $540,000, (b) $540,000 and $548,000; 11 mos. Maryland Steel Co. of Baltimore County, Sparrows Point, Md., (a) $547,600, (b) $547,600 and $555,500; 11 mos., 15 days. New York Shipbuilding Co., Camden, N. J., (a) $494,000; 15 mos. Maj. Herbert Deakyne, Corps Engrs., U. S. A.

PIER.—New York, N. Y.—Bids were received by the Department of Docks and Ferries on Aug. 22, as follows for Contract No. 1192, for furnishing all the labor and material required for preparing for and building the exterior pier, with appurtenances, at the mouth of Whale Creek, Newtown Creek, Boro. of Brooklyn: McHarg Barton Co., 165 Broadway, New York, $44,400; N. Y. State Construction Co., 80 Broad St., New York, $49,339; Phoenix Construction Co., 41 Park Row, New York, $47,497; Bart Cronin, 573 Clinton St., Brooklyn, $49,950; Butler Bros., 1170 Bradway, New York, $48,500; John Monks, 82 Beaver St., New York, $49,106; Luke A. Burke & Sons, 25 West 42d St., New York, $49,706; George B. Spearin, 90 West St., New York, $49,632; E. Dev. Tompkins, 81 East 125th St., New York, $48,463; William H. Jenks, 59 Pearl St., New York, $50,900.

*DREDGING.—Buffalo, N. Y.—Bids were received by Col. W. L. Fisk, Corps Engrs., U. S. A., Federal Bldg., on Aug 16, for excavation in Niagara River section of Black Rock harbor and channel, N. Y. The bids follow: Daly & Hannan Dredging Co., Ogdensburg, N. Y., $804,500; Arthur H. Vogel, Milwaukee, Wis., $532,100; Empire Engineering Corporation, New York, $650,900; Buffalo Dredging Co., Buffalo, $576,800; Duluth Superior Dredging Co., Duluth, Minn., $748,000; Great Lakes Dredge & Dock Co., Chicago, Ill., $688,409. It is reported that contract has been awarded to ARTHUR H. VOGEL, of Milwaukee, Wis.

The D'OLIER ENGINEERING CO., 119-121 South Eleventh St., Philadelphia, has been awarded contract by Col. J. G. Warren, Corps Engrs., U. S. A., for the canal lock gates and operating mechanism for Black Rock Harbor, near Buffalo. This will require in addition to the gate operating mechanism ten large structural steel gates. The value of the contract is about $146,000.

DRAINAGE.—Freedom, Ill.—Bids are asked until Sept. 3 by the Board of Drainage Commissioners for five miles of 12-in. to 27-in. tile drains, including tile and trenching, laying and covering. E. H. Fredericks is Town Clk.; Rastus Jameson is Chn. Bd.

BARGE CANAL.—Albany, N. Y.—Bids received by F. C. Stevens, Supt. Public Works, Aug. 23, for Barge Canal Constracts Nos. 67 and 79, were: Contract No. 67, for the construction of two locks and all other structures to take the place of the present combined locks at Lockport: Smith, McCormick & Co., Easton, Pa., $1,416,025; MacArthur Bros. Co., 11 Pine St., New York, $1,236,472; S. Pearson & Son, Inc., 507 Fifth Ave., New York, $1,415,914; Buffalo Dredging Co., Buffalo, N. Y., $1,285,395; Larkin & Sangster, St. Catherines, Ont., $1,149,401; Engineer's estimate, $1,290,880. For Contract No. 79, providing for the construction of a highway bridge over the Oswego canal at Bridge St., Oswego: M. Fitzgerald, Hoosick Falls, N. Y., $40,499; E. J. Doyle & Co., 82 State St., Albany, $37,931; United Construction Co., 467 Broadway, Albany, $38,656; Lupfer & Remick, Ellicott Sq., Buffalo, N. Y., $37,480; the G. & W. Mfg. Co., 30 Church St., New York, $41,766. Engineer's estimate, $39,735.

No bids were received for Contract No. 27A, which was also advertised. This contract embraces the work remaining unfinished from the original contract formerly held by the Kinser Construction Co. and includes lock work at Fort Edward. Frank M. Williams is State Engr.

# LIST OF CONTRACTS PENDING.

## Light, Heat and Power Plants.

| Bids open. | | Noted in issue of |
|---|---|---|
| 8-26 | Elec elevators, New York | 8-18 |
| 8-29 | Elec. conduits, Bradford, Pa | 8- 4 |
| 8-29 | Steam and water pipes, New York | 8-25 |
| 8-30 | Copper wire, etc., Washington, D. C | 8-25 |
| 8-30 | Engine, Jaksonville, Ill | 8-18 |
| 8-31 | Elec. light system, Opelika, Ala | 8- 4 |
| 9- 1 | Cable, Winnipeg, Man | 7-28 |
| 9- 1 | Engines, etc., Medicine Hat, Alta. | 8-18 |
| 9- 1 | Generators, Clearwater, Fla | 8-25 |
| 9- 5 | Light plant, Princeville, Ill | 8-18 |
| 9- 6 | Elec. equipment, New York | 8-25 |
| 9- 7 | Gas and elec fixtures, Peru, Ind | 8-18 |
| 9- 7 | Lighting fixtures, Brooklyn, N. Y. | 8-25 |
| 9-10 | Elec light, Charlottetown, P. E. I. | 8-18 |
| 9-10* | Pump and motors, Hot Springs, Ark | 8-11 |
| 9-14 | Light fixtures, Washington, D. C. | 8-25 |
| 9-15 | Elec. apparatus, Washington, D. C | 7-28 |
| 10- 1* | Power plant, Annapolis, Md | 8-25 |

## Bridges.

| Bids open. | | Noted in issue of |
|---|---|---|
| 8-26 | Superstructure, etc., Kansas City, Mo | 8-25 |
| 8-26 | Bridge, Napoleon, Ohio | 8-25 |
| 8-29 | Bridge, Los Angeles, Cal | 8-25 |
| 8-29 | Bridge, Aragon, Ga | 8-25 |
| 8-29 | Bridge, Ashland, Pa | 8-25 |
| 8-29 | Bridge, Shelbyville, Ind | 8-18 |
| 8-29 | Bridge, Alma, Kan | 8-18 |
| 8-31* | Bridge, Paterson, N. J | 8-25 |
| 9- 1 | Rebuilding bridge, Slatington, Pa | 8-25 |
| 9- 2 | Bridge, Cuyahoga Falls, Ohio | 8-25 |
| 9- 2 | Bridges, Cincinnati, Ohio | 8-18 |
| 9- 3 | Bridge, Steubenville, Ohio | 8-25 |
| 9- 5 | Bridge, Meridian, Miss | 8-25 |
| 9- 5 | Bridges, Leavenworth, Kan | 8-18 |
| 9- 5 | Bridge repair, Gaffney, S. C. | 7- 7 |
| 9- 6* | Viaduct, Toronto, Ont | 7-28 |
| 9- 6 | Bridges, Jasper, Ind | 8-18 |
| 9- 6 | Bridge, Stillwater, Okla | 8-25 |
| 9- 6 | Bridge, Delaware, Ohio | 8-25 |
| 9- 7 | Bridge, Ashland, Ohio | 8-25 |
| 9- 7 | Bridge, Crown Point, Ind | 8-25 |
| 9- 7 | Bridges, Frederick, Okla | 8-25 |
| 9- 7 | Bridges, Bismarck, N. Dak | 8-25 |
| 9- 8 | Bridges, Rockport, Ind | 8-25 |
| 9- 8 | Bridges, Lebanon, Ind | 8-25 |
| 9- 8* | Bridge work, Wilkes-Barre, Pa | 8-18 |
| 9- 9* | Bridge, Van Buren, Me | 8-11 |
| 9-14 | Bridge work, Columbus, Ohio | 8-25 |
| 9-19 | Bridge work, Lisbon, Ohio | 8-25 |
| 10- 1* | Superstructure, Quebec, Que | 8-18 |

## Buildings.

| Bids open. | | Noted in issue of |
|---|---|---|
| 8-26 | Heating, etc., St. Louis, Mo | 7-28 |
| 8-29 | Armory, Niagara Falls, Ont | 8-25 |
| 8-27 | Building, Boston, Mass | 8-11 |
| 8-29 | Post-office, Bradford, Pa | 7-28 |
| 8-29* | School, Fort Monroe, Va | 8- 4 |
| 8-29 | Alterations, etc., New York | 8-18 |
| 8-29 | Schools, Nashville, Tenn | 8-25 |
| 8-31 | School, Plains, Pa | 8-25 |
| 8-31* | Post-office, Olean, N. Y | 7-28 |
| 8-31* | Laundry equip., Kings Park, N. Y. (Mfg. Pl.) | 8-18 |
| 9- 1* | Painting, San Francisco, Cal | 7-28 |
| 9- 2* | Quarters, Ft. Monroe, Va | 8- 4 |
| 9- 5 | School addition, Faribault, Minn. | 8-25 |
| 9- 6 | Building alterations, Morrisville, N. Y | 8-25 |
| 9- 6 | Infirmary, Hartford, Conn | 7-28 |
| 9- 6 | Post-office, San Marcos, Tex | 8- 4 |
| 9- 6* | Shops, Ft. Du Pont, Del | 8-11 |
| 9- 6 | Truck house, Albany, N. Y | 8-11 |
| 9- 6* | Court-house plans, Tulsa, Okla | 8-11 |
| 9- 6 | Observatory, Key West, Fla | 8-18 |
| 9- 6 | Public school work, New York | 8-25 |
| 9- 7 | Cottages, etc., Sandusky, O | 8-18 |
| 9- 8 | Post-office, Beverly, Mass | 8-11 |
| 9- 9* | Post-office, Port Arthur, Tex | 8- 4 |
| 9- 9* | Building, Ft. Monroe, Va | 8-11 |
| 9- 9 | Buildings, Columbus, Ohio | 8-25 |
| 9-10 | High school, Wawaka, Ind | 8-25 |
| 9-10 | Plans, Albany, N. Y | 6- 9 |
| 9-12 | Post-office, Lexington, Mo | 8-11 |
| 9-12 | Building, Kankakee, Ill | 8-25 |
| 9-13 | Post-office, York, Pa | 8- 4 |
| 9-14 | Post-office, Webster, Mass | 8-11 |
| 9-15* | Post-office, Waycross, Ga | 8-11 |
| 9-15 | Plant, Salisbury, N. C | 8-25 |
| 9-16* | Post-office, Harriman, Tenn | 8-11 |
| 9-19 | Post-office, Plattsmouth, Neb | 8- 4 |
| 9-20 | Post-office, Easton, Pa | 8-18 |
| 9-21* | Post-office, Warrensburg, Mo | 8-18 |
| 9-22 | Post-office, Clinton, Mo | 8-11 |
| 9-26 | Post-office, Greensburg, Pa | 8-25 |
| 10- 1 | Buildings, Tacoma, Wash | 8-25 |
| 11- 1 | Plans, Toronto, Ont | 6- 9 |

## Water-Works.

| Bids open. | | Noted in issue of |
|---|---|---|
| 8-26 | Fire hydrants, Louisville, Ky | 8-18 |
| 8-29* | Tank, Lovell, Wyo | 8- 4 |
| 8-29 | Water mains, Provo, Utah | 8-11 |
| 8-29* | Chimney, Perth Amboy, N. J | 8-25 |
| 8-29 | Intake crib, Toledo, Ohio | 8-11 |
| 8-31* | Water-works, Hamburg, Ark | 8-18 |
| 8-31 | Water pipe, East Hartford, Conn. | 8-25 |
| 9- 1 | River crossing (pipe) Manistee, Mich | 8-18 |
| 9- 1 | Pumps, Boston, Mass | 8-18 |
| 9- 1 | Pumping sta., etc., Connersville, Ind | 8-11 |
| 9- 1 | Pumping sta. work, Brooklyn, N. Y | 8-25 |
| 9- 1 | Pipe laying, etc., Dauphin, Man | 8-18 |
| 9- 2 | Pig lead, Cleveland, Ohio | 8-25 |
| 9- 2* | Water-works, Cozad, Neb | 8-11 |
| 9- 3 | Canal work, Sanders, Mont | 8-18 |
| 9- 5 | Filter, Grand Forks, N. Dak | 8-11 |
| 9- 5 | Water pipe, Italy (Foreign) | 8- 4 |
| 9- 5 | Water mains, Conneaut Lake, Pa. | 8-25 |
| 9- 6* | Reservoir, etc., Waterloo, N. Y | 8-25 |
| 9- 6* | Water-works, Arapaho, Okla | 8-25 |
| 9- 6 | Water plant, Pella, Iowa | 8-25 |
| 9- 6 | Water-works, Cleveland, Miss | 8-18 |
| 9- 8* | Filtration plant work, Grand Rapids, Mich | 8-25 |
| 9- 9 | Water mains, Carrington, N. Dak. | 8-25 |
| 9-10 | Pump and motors, Hot Springs, Ark | 8-25 |
| 9-12* | Pipe, Portland, Me | 8-18 |
| 9-14 | Laying pipe, etc., Montreal, Que. | 8-25 |
| 9-16 | Bridges, Harrisburg, Pa | 8-25 |
| 9-20* | W.-wks. bonds, Belle Fourche, S. Dak | 8-25 |
| 9-20* | Pumping engine, Detroit, Mich | 8-18 |
| 9-20* | Pumps, Evansville, Ind | 8-18 |

## Sewers.

| Bids open. | | Noted in issue of |
|---|---|---|
| 8-25 | Sewer, Newark, N. J | 8-25 |
| 8-26 | Sewers, Janesville, Wis | 8-18 |
| 8-29 | Sewers, Washington, D. C | 8-18 |
| 8-29 | Sewers, Lakewood, Ohio | 8-18 |
| 8-29 | Sewers, Gainesville, Fla | 8-11 |
| 8-30* | Sewers, Winchester, Ky | 8-18 |
| 8-30 | Sewer, New York | 8-18 |
| 8-31* | Sewer outlet, Fort Hancock, N. J. | 8-18 |
| 9- 1 | Sewer, Algoma, Wis | 8-18 |
| 9- 1 | Sewers, etc., Petersboro, Ont | 8-25 |
| 9- 2* | Sewer, Louisville, Ky | 8-25 |
| 9- 2 | Sewer, North Braddock, Pa | 8-25 |
| 9- 3 | Sewers, Newburg Heights, Ohio | 8-18 |
| 9- 5* | Sewers, Centreville, Md | 8-25 |
| 9- 5 | Sewer, New Castle, Ind | 8-25 |
| 9- 6 | Sewer pipe, Emmetsburg, Iowa | 8-25 |
| 9- 6 | Sewer, Upper Sandusky, Ohio | 8-25 |
| 9- 6 | Sewers, Sioux Falls, S. Dak | 8-18 |
| 9- 6 | Supervising Engr., Evansville, Ind | 8-18 |
| 9- 7* | Sewers, etc., Baltimore, Md | 8-18 |
| 9- 9 | Sewers, Carrington, N. Dak | 8-25 |
| 9-10 | Sewer extensions, Greenville, S. C. | 8-25 |
| 9-13* | Sewer, Olean, N. Y | 8-25 |
| 9-19 | Sewer system, Brawley, Cal | 8-25 |
| 10- 1 | Sewers, etc., West View, Pa | 8-18 |

## Streets and Roads.

| Bids open. | | Noted in issue of |
|---|---|---|
| 8-26 | Road impvt., Cincinnati, Ohio | 8-18 |
| 8-26 | Road, Clinton, Ind | 8-18 |
| 8-26 | Street impvt., Janesville, Wis | 8-18 |
| 8-26* | Pavement, Westfield, Mass | 8-18 |
| 8-26* | Roads, etc., Fort Douglas, Utah | 7-28 |
| 8-26 | Grading, Logan, Ohio | 8-25 |
| 8-26 | Paving, Troy, N. Y | 8-25 |
| 8-27 | Road work, Hallock, Minn | 8-18 |
| 8-29 | Street work, Richmond, Cal | 8-18 |
| 8-29 | Regulating, etc., New York | 8-18 |
| 8-29 | Curb and gutter, Ogden, Utah | 8-25 |
| 8-30 | Binder, New York | 8-18 |
| 8-31 | Regulating, etc., Brooklyn, N. Y. | 8-18 |
| 8-31 | Paving, Cleveland, Ohio | 8-25 |
| 8-31 | Paving, etc., New York, N. Y | 8-25 |
| 9- 1* | Road, New Brunswick, N. J | 8-11 |
| 9- 2 | Macadam, Columbus, Ohio | 8-11 |
| 9- 2 | Grading, etc., Huntington, W. Va. | 8-18 |
| 9- 2 | Road, Toledo, Ohio | 8-25 |
| 9- 2 | *Paving, Hackensack, N. J | 8-25 |
| 9- 2 | State roads, Hartford, Conn | 8-25 |
| 9- 5 | Grading, etc., Vicksburg, Miss | 8-18 |
| 9- 5 | Road, Fowler, Ind | 8-18 |
| 9- 5 | Macadam road, Decatur, Ind | 8-11 |
| 9- 5 | Macadam road, Rushville, Ind | 8-11 |
| 9- 5 | Pike road, Vernon, Ind | 8-11 |
| 9- 5 | Gravel road, Jeffersonville, Ind | 8-11 |
| 9- 5 | Resurfacing, Columbus, Ohio | 8-11 |
| 9- 6 | Shell road, West Palm Beach, Fla | 8-11 |
| 9- 6 | Gravel road, Vincennes, Ind | 8-11 |
| 9- 6* | Paving, Bronxville, N. Y | 8-18 |
| 9- 6 | Gravel road, Wabash, Ind | 8-11 |
| 9- 6 | *Stone road, New Brunswick, N. J | 8-18 |
| 9- 6 | Roads, Crown Point, Ind | 8-18 |
| 9- 6 | Road, Spencer, Ind | 8-18 |
| 9- 6 | Roads, Paoli, Ind | 8-18 |
| 9- 6 | Road, Salem, Ind | 8-25 |
| 9- 6 | Roads, Peru, Ind | 8-25 |
| 9- 6 | Road, Sullivan, Ind | 8-25 |
| 9- 6 | Grading, Youngstown, Ohio | 8-25 |
| 9- 7 | Highways, Muncie, Ind | 8-25 |
| 9- 7* | Street impvt., Mt. Pleasant, N. Y. | 8-18 |
| 9- 7 | Roads, Lafayette, Ind | 8-18 |
| 9- 8* | Dam, etc., New Haven, Conn | 8-25 |
| 9- 8 | Gravel road, Lebanon, Ind | 8-11 |
| 9- 8 | Roadway, Oakland, Cal | 8-25 |
| 9- 8 | Grading, etc., Newark, N. J | 8-25 |
| 9- 9 | Surface graveling, Concord, N. H. | 8-25 |
| 9-12 | Macadam road, Fort Du Pont, Del | 8-25 |
| 9-12* | Resurfacing, etc., Scarsdale, N. Y. | 8-25 |
| 9-13* | Pavement, Olean, N. Y | 8-25 |
| 9-14* | Stone road, Tenafly, N. J | 8-25 |
| 9-15* | Road, Avalon, N. J | 8-25 |
| 9-15 | Gravel road, Vernon, Ind | 8-11 |
| 9-16 | Road construction, Harrisburg, Pa | 8-25 |
| 9-19 | Paving, Lakewood, Ohio | 8-25 |

## Miscellaneous.

| Bids open. | | Noted in issue of |
|---|---|---|
| 8-25 | Automobile, New York | 8-25 |
| 8-29 | Excavating channel, Lincoln, Neb | 8-25 |
| 8-29* | Removing wreck, Portland, Me | 8-18 |
| 8-29 | Retaining wall, St. Paul, Minn | 8-18 |
| 8-29 | Wharf, Montmagny, Que | 8-18 |
| 8-29 | Steel bars, etc., Panama (U. S. Poss.) | 8-11 |
| 8-29* | Dredging, Norfolk, Va | 8-11 |
| 8-30 | Canal, etc., Sault Ste. Marie, Mich | 8- 4 |
| 8-30* | Tunnel, Boston, Mass | 8-11 |
| 8-30 | Lumber, New York | 8-25 |
| 8-30 | Fire-hose, Los Angeles, Cal | 8-25 |
| 8-31 | Breakwater, Ottawa, Ont | 8-25 |
| 9- 1 | Playground apparatus, New York | 8-25 |
| 9- 1 | Reconstructing dam, etc., New York | 8-25 |
| 9- 1 | Lumber and trim, New York | 8-25 |
| 9- 1 | Pipe, Brooklyn, N. Y | 8-25 |
| 9- 1 | Marble, New York | 8-25 |
| 9- 1 | Iron posts, Ottawa, Ont | 8- 4 |
| 9- 1* | Dams, etc., Rock Island, Ill | 8- 4 |
| 9- 1* | Dredging, Port Washington, Wis. | 8-11 |
| 9- 1 | Fire engine, Washington, D. C | 8-11 |
| 9- 1 | Earthwork, New Orleans, La | 8-18 |
| 9- 2 | Breakwater, Cleveland, Ohio | 8-18 |
| 9- 2 | Breakwater, Lorain, Ohio | 8-18 |
| 9- 2 | Dredging, Toledo, Ohio | 8-18 |
| 9- 2* | Pier, etc., Boston, Mass | 8- 4 |
| 9- 2* | Breakwater, Bar Harbor, Me | 8- 4 |
| 9- 2 | Repairs to ferryboat, New York | 8-25 |
| 9- 3 | Riprap, Washington, D. C | 8-11 |
| 9- 3 | Drainage, Freedom, Ill | 8-25 |
| 9- 6* | Dredging, Jacksonville, Fla | 9-11 |
| 9- 6 | Ditch, etc., Clark, S. Dak | 7-28 |
| 9- 6* | Incinerator plants (Garbage), Racine, Wis | 8-18 |
| 9- 6 | R. R. materials, Toronto, Ont | 8-18 |
| 9- 6 | Removing wreck, Boston, Mass | 8-18 |
| 9- 6 | Ditch, Nevada, Iowa | 8-25 |
| 9- 6 | Sanitary apparatus, Cleveland, Ohio | 8-25 |
| 9- 7* | Lock and dam, Mobile, Ala | 8-18 |
| 9- 7* | Walls, dams, etc., Jacksonville, Fla | 8-11 |
| 9- 7* | Barge canal, Albany, N. Y | 8-11 |
| 9- 8* | Riprap, New London, Conn | 8-11 |
| 9- 8* | Dredging, San Diego, Cal | 8-11 |
| 9- 8* | Dredging, Savannah, Ga | 8-11 |
| 9- 8* | Dredging, Jacksonville, Fla | 8-11 |
| 9- 8* | Locks and dams, Pittsburg, Pa | 8-11 |
| 9- 8 | Gun turrets, Washington, D. C | 7-28 |
| 9- 8* | Hoisting apparatus, New York | 8-25 |
| 9- 8* | Dam, etc., New Haven, Conn | 8-25 |
| 9- 9* | Lock, dam, etc., New Orleans, La | 8-18 |
| 9-10 | Dredging, Los Angeles, Cal | 8-18 |
| 9-10* | Dredging, Galveston, Tex | 8-18 |
| 9-12* | Caissons, pier, etc., Milwaukee, Wis | 8-18 |
| 9-12 | Dredge, Ottawa, Ont | 8-25 |
| 9-12* | River improvement, Des Moines, Iowa | 8-25 |
| 9-12* | Vacuum heating system, Washington, D. C | 8-25 |
| 9-15* | Dredging, Philadelphia, Pa | 8-18 |
| 9-15* | Dredging, Bridgeport, Conn | 8-18 |
| 9-16* | Lock, guidewalls, etc., Wheeling, W. Va. | 8-18 |
| 9-16* | Lock and dam, Wheeling, W. Va. | 8-18 |
| 9-16* | Lock machinery, Panama | 7-21 |
| 9-19* | Seawall, New Orleans, La | 8-11 |
| 9-19* | Dredging, Galveston, Tex | 8-25 |
| 9-19 | Dredging, Norfolk, Va | 8-25 |
| 9-19* | Oil-house, Fort Hancock, N J | 8-25 |
| 9-19* | Riprap jetties, Portland, Me | 8-25 |
| 9-20* | Dredging, Baltimore, Md | 8-25 |
| 9-20 | Dredging, Norfolk, Va | 8-25 |
| 9-20 | Gun turrets Washington, D C | 7-28 |
| 9-22* | Dredging, Washington, D. C | 8-25 |
| 9-23* | Insulated cable, New London, Conn | 8-25 |
| 9-23* | Metal shelving, Trenton, N. J | 8-25 |
| 9-23* | Dredging, Mobile, Ala | 8-25 |
| 10-20* | Dredge, etc., Vicksburg, Miss | 8-25 |

## Examinations.

| Bids open. | | Noted in issue of |
|---|---|---|
| 9- 7 | Computer, Washington, D. C | 8-11 |
| 9-14 | Civil engr., Washington, D. C | 8-11 |
| 10- 5 | Inspector, Fort Crockett, Tex | 8-25 |
| 10- 5 | Xylotomist, Washington, D. C | 8-25 |

## Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

| | | |
|---|---|---|
| 8-30 | Canal, etc., Sault Ste. Marie, Mich (S.) | 8- 4 |
| 8-31 | Elec. light system, Opelika, Ala. (S.) | 8- 4 |
| 9- 1* | Dams, etc., Rock Island, Ill (S.) | 8- 4 |
| 9- 2* | Breakwater, Bar Harbor, Me. (S.) | 8- 4 |
| 9- 2* | Pier, Boston, Mass (P. & S.) | 8- 4 |
| 9- 6* | Viaduct, Toronto, Ont (P. & S.) | 7-28 |
| 9- 7* | Lock & Dam, Mobile, Ala (P.&S) | 8-11 |
| 9- 9* | Bridge, Van Burean, Me. (P. & S.) | 8-11 |
| 9-10 | Dredging, Los Angeles, Cal (S.) | 8-18 |

## U. S. POSSESSIONS.

*REINFORCED STEEL.—Porto Rico.—Bids were received on July 25, by the Porto Rico Irrigation Service, Guayama, P. R., for furnishing about 165,000 lbs. of steel bars for concrete reinforcement; about 42,000 sq. ft. of metal fabric for concrete reinforcement; and 1,500 ft. of 12-in. pipe. B. Hall, Ch. Engr., Porto Rico Irrigation Service. The contract has been let to MULLENHOFF & KORBER, of Can Juan, P. R., at $4,150.

*DAMS AND CANALS.—Porto Rico.—Bids were received on July 25, by the Porto Rico Irrigation Service, Dept., of the Interior, at Guayama, for the construction of (a) the Carite Dam, 150,000 cubic meters of earth and loose rock; (b) the Toro Negro Dam (c), and the Dona Juana Canal, 1½ miles in length. The estimated total cost is about $160,000. B. M. Hall, Ch. Engr. The bids for (a) were rejected. The only bid received was that of T. L. Huston Contracting Co., $238,591. The contracts for (b) and (c) has been awarded to MERO PIRAZZI, at $19,915 and $16,100, respectively. The Huston Contracting Co. bids (b) $31,877 and (c) $27,790, respectively.

## EXAMINATIONS.

ASSISTANT CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 7, to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Chemist, $1,200 a year, in the Geological Survey, and vacancies requiring similar qualifications as they may occur in that survey, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Age limit, 20 years. Application form 1312.

INSPECTOR OF CONSTRUCTION.—The U. S. Civil Service Commission announces an examination, on Oct. 5, to secure eligibles from which to make certification to fill a vacancy in the position of inspector, qualified as a good all-round building inspector, male, at $900 a year, in the Quartermaster's Department at Large, Fort Crockett, Tex., and vacancies as they may occur in any branch of the service requiring similar qualifications. It is desired to secure as applicants for this position young men recently from technical schools who have not yet acquired the practical experience to justify placing them in charge of work for which experienced civil engineers and superintendents of construction are required. Age limit, 20 years. Application and examination Form 1312. Applications must be filed prior to closing hour on Sept. 24.

MARINE DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 7, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Marine Draftsman (male) in the Isthmian Canal Service, at an entrance salary of $125 a month. It will not be necessary for applicants to appear at any place for examination. Their eligibility for the position will be determined upon the evidence furnished in application and examination Form 1312 concerning their education, training, and experience. Eligibles are desired who are experienced in marine design and capable of making drawings of floating equipment, such as tugs, barges, dump scows, derrick boats and dredges. Applicants must have reached their twentieth birthday, but not their forty-fifth birthday, on the date of the examination. Applications must be filed prior to closing hour on Sept. 7.

TINNER.—Carlisle, Pa.—The U. S. Civil Service Commission announces an examination on Sept. 7, to secure eligibles from which to make certification to fill a vacancy in the position of Tinner (male), $600 a year, in the U. S. Indian School, Carlisle, Pa., and vacancies requiring similar qualifications as they may occur in any branch of the service, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Applicants should state in application all the experience they have had with tin, galvanized iron, copper and sheet steel. Applicants will be required to state in detail their school training, showing what schools they have attended and for what period, and only those whose applications show them to have sufficient education to be able to instruct Indian youth in tinsmithing will be considered for the specific vacancy mentioned above. Applicants for the Indian Service must execute their applications in their own handwriting and be able to speak the English language. No application will be received by the Commission, Washington, D. C., later than the hour of closing on Sept. 7. Age limit, 20 to 50 years. Application form 1800.

XYLOTOMIST.—FOREST SERVICE, Oct. 5, 1910.—The U. S. Civil Service Commission announces an examination on, Oct. 5, to secure eligibles from which to make certification to fill a vacancy in the position of xylotomist, Forest Service, at $1,100 a year, in the Forest Service, Department of Agriculture, and similar vacancies as they may occur in the Forest Service. Both men and women will be admitted to this examination. Applicants must be graduated from a technical school of recognized standing, must have had at least five years' training in some botanical subjects, and show familiarity with wood cutting or boring insects. The thesis required may be either typewritten or in the handwriting of the applicant and on any size paper most convenient. Published articles written by the applicant may be submitted as a thesis. Applicants must have reached their twenty-first birthday, but not their forty-fifth birthday, on the date of the examination. This examination is open to all citizens of the United States who comply with the requirements. Applicants should at once apply to the United States Civil Service Commission, Washington, D. C. No application will be accepted unless properly executed and filed with the Commission at Washington. In applying for this examination the exact title as given at the head of this announcement should be used in the application. Application Form 1312.

**For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 94.**

## BRICK PAVEMENT.

Olean, N. Y.

Sealed proposals will be received by the Commissioners of Public Works of the City of Olean, N. Y., at the office of the City Engineer at the City Building, until 8.30 o'clock P. M., Tuesday evening, September 13, 1910, for the construction of a vitrified brick pavement with concrete foundation, and concrete curb and gutter in West Henley Street, from the west line of South First Street to P. R. R. switch at Fifteenth Street.

The approximate amount of pavement is 15,000 square yards.

The approximate amount of curb and gutter is 9,000 lin. feet.

Plans and specifications may be examined and bid blanks procured, and further information may be obtained at the office of the City Engineer, Olean, N. Y.

The right to reject any or all bids is reserved.

R. B. FORDSWORTH, Engr.
GEO. H. LUTHER,
JAS. RODGERS,
PETER TRUBY,
Commissioners.

## BRICK PAVEMENT.

Olean, N. Y.

Sealed proposals will be received by the Commissioners of Public Works of the City of Olean, N. Y., at the office of the City Engineer at the City Building, until 7.30 o'clock P. M. on Tuesday evening, September 13, 1910, for the construction of a vitrified brick pavement on concrete foundation in Whitney Avenue, from the west line of North Union Street to a point forty (40) feet west of the west line of North First Street.

The approximate amount of pavement is 800 sq. yds.

The approximate amount of curbing is 800 lin. feet.

Plans and specifications may be examined and bid blanks procured, and further information may be obtained at the office of the City Engineer, City Building, Olean, N. Y.

The right to reject any or all bids is reserved.

R. B. FORDSWORTH, Engr.
GEO. H. LUTHER,
JULIUS PLOSSELL,
GEORGE HAMED,
Commissioners.

## BONDS.

Belle Fourche, S. Dak.

Sealed proposals for the purchase of $50,000.00 of waterworks bonds of the city of Belle Fourche, Butte County, South Dakota, will be received by the undersigned until two o'clock P. M., September 20, 1910, and then publicly opened. The bonds will bear interest at the rate of five (5) per cent. per annum; they are issued for a term of twenty (20) years, with the right of redemption upon any semi-annual interest day after ten years. Further information concerning same can be obtained upon application to David R. Evans, Mayor, or Rush O. Fellows, City Auditor. Envelopes should be marked: "Proposals for Bonds," and addressed to the Mayor and City Council of the city of Belle Fourche, South Dakota. The right is reserved to reject any or all bids.

DAVID R. EVANS,
Mayor.

Attest:
RUSH O. FELLOWS,
City Auditor.

Dated, Belle Fourche, S. Dak., August 20, 1910.

U. S. ENGINEER OFFICE, New London, Conn., Aug. 23, 1910.—Sealed proposals will be received here until Sept. 23, 1910, and then publicly opened, for furnishing insulated cable. Information on application. HARRY TAYLOR, Lt.-Col., Engrs.

## SEWERS.

Owosso, Mich.

The Incorporated City of Owosso, Michigan, will receive sealed bids until 2 o'clock P. M., Sept. 8, 1910, at the City Clerk's office, for the construction of sewers as follows:

24 inch, about 1,600 ft.
20 inch, about 880 ft.
15 inch, about 500 ft.
6 inch Y Branches, about 80.
Manholes, 12.
1 special catchbasin inlet for flushing.

All in accordance with plans and specifications prepared by E. F. Joslin, Engineer, and now on file in the office of the City Clerk.

All bids must be accompanied with certified checks approximately in the amount of five per cent. of the bid, made payable without recourse to the Treasurer of the City of Owosso, Michigan. The City reserves the right to reject any or all bids, to waive defects, and to accept any bid. All bids must be in sealed envelopes, marked on the outside "Sewerage Bids," and addressed to A. H. DUMOND, City Clerk.

## WATER-WORKS.

Waterloo, Wis.

Sealed proposals will be received by Board Trustees, Village of Waterloo Wisconsin, until seven-thirty P. M., Tuesday, September sixth, for building concrete reservoir and concrete foundation for steam pump; for laying approximately eighteen thousand lineal feet four, six, eight and ten-inch water mains and setting fire hydrants, valves and valve boxes. Certified check drawn on responsible bank equivalent to five per cent. of amount of bid, payable to E. F. Deering, President Board Village Trustees, must accompany each bid as guarantee that successful bidder will enter into contract to furnish an acceptable bond within ten days after acceptance of his bid. Specifications are not printed for distribution, but may be seen at office of Village Clerk, Waterloo, Wisconsin, and office of Engineer. The Board of Trustees reserves right to reject any or all bids. P. E. Peschel, Village Clerk; James H. Thompson, Engineer, Three-twenty-four Dearborn St., Chicago.

## DAM, CONCRETE CONDUIT, TUNNEL LINING.

New Haven, Conn.

Sealed proposals will be received by the New Haven Water Co. at its office, No. 100 Crown Street, New Haven, Conn., until twelve o'clock noon, Thursday, Sept. 8th, 1910, for constructing an earth dam with concrete core wall and spillway, containing about 3,500 cu. yds. of rolled earth embankment and about 900 cu. yds. of concrete; a 5' × 5½' concrete conduit about 1,500 ft. in length; a 5' × 5½' reinforced concrete inverted siphon about 1,000 ft. in length; and about 1,700 lin. ft. of 6' rock tunnel lining.

Plans and specifications can be seen and blank forms for proposals can be obtained at the office of the undersigned, No. 100 Crown Street, New Haven, Conn.

Bond on contract, $10,000; bond on proposal, $5,000.

A. B. HILL,
Engineer.

## SEWER.

Olean, N. Y.

Sealed proposals will be received by the Commissioners of Public Works of the City of Olean, N. Y., at the office of the City Engineer at the City Building, until 8.00 P. M. on Tuesday, September 13, 1910, for the construction of a vitrified pipe sewer and appurtenances in Main Street, from North Union Street to the Olean Creek.

Plans and specifications may be seen and bid blanks procured at the office of the City Engineer, City Building.

The right to reject any or all bids is reserved.

R. B. FORDSWORTH, Engr.
GEO. H. LUTHER,
J. H. BRADNER,
EDWARD TROY,
Commissioners.

## CONCRETE BRIDGE.

Paterson, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of Passaic County on Wednesday, Aug. 31, 1910, at 2 P. M., at the Court House, Paterson, N. J., for building a reinforced concrete arch bridge over the Wanaque River, at Pompton Lakes, on the Paterson and Hamburgh Turnpike, near McDavitt's.

Plans and specifications may be seen at the office of the County Engineer, Court House, Paterson, N. J.

A certified check in the sum of $800 must accompany each bid.

The right to reject any or all bids is reserved.

FRED G. SLOAN, Chairman,
Passaic County Board.
GEORGE W. BOTBYL, Clerk.

## RIVER IMPROVEMENT.

Des Moines, Iowa.

Bids will be received up to 9 o'clock a. m., September 12, 1910, for extensive river improvement for flood protection along the Des Moines and Raccoon rivers in Des Moines, Iowa. Write to Neal Jones, City Clerk, Des Moines, Iowa, for specifications and for forms of proposals and other particulars. The work includes about 650,000 cubic yards of excavating; also levee construction, and will be let in part or whole.

NEAL JONES, City Clerk.
Des Moines, Iowa.

## ELEVATED STEEL TANK.

Toulon, Ill.

Bids will be received by the City Clerk of the City of Toulon, Ill., until Sept. 15th, 1910, for furnishing and erecting a 50,000 gal. steel tank and tower. Plans may be seen at the office of the City Clerk or W. S. Shields, Hartford Bldg., Chicago, Ill.

ARTHUR SHINN, City Clerk.

SEALED PROPOSALS, indorsed "Proposals for Power Plant Equipment," will be received at the Navy Department, Washington, D. C., until 11 o'clock a. m., October 1, 1910, and then and there publicly opened, for completing Power Plant at U. S. Naval Academy, Annapolis, Md. Plans and specifications can be obtained on application to the Superintendent of the Naval Academy, Annapolis, Md., on deposit of $10.00 for return of plans. BEEKMAN WINTHROP, Acting Secretary of the Navy. August 17, 1910.

U. S. ENGINEER OFFICE, 920 17th St., N. W., Washington, D. C., Aug. 23, 1910.—Sealed proposals for dredging in Potomac River at Alexandria, Va., and at Lower Cedar Point, Md., and in Upper Machodoc and Dymers Creeks, Va., will be received here until 12 M., Sept. 22, 1910, and then publicly opened. Information on application. W. C. LANGFITT, Lt.-Col., Engrs.

U. S. ENGINEER OFFICE, 920 17th St., N. W., Washington, D. C., Aug. 23, 1910.—Sealed proposals for dredging in Potomac and Anacostia Rivers near Washington, D. C., will be received here until 12 M., Sept. 22, 1910, and then publicly opened. Information on application. W. C. LANGFITT, Lt.-Col., Engrs.

## Situations Wanted

YOUNG MAN, technical education, good mathematician, draftsman and letterer, wishes starting position with nearby civil engineer. D. KAPLAN, 126 2d St., New York City. 8-3t

## Situations Open

WANTED—First-class templet man for steady employment. Good wages. Address "B. B. 8," Engineering News, New York. 8-1t

WANTED—Several experienced structural steel draftsmen for building work. THE HINKLE IRON CO., 534 West 56th St., New York City. 8-1t

THE SUPERVISING ARCHITECT of the United States Treasury Department desires the services of several engineers experienced in designing steel and reinforced concrete work for buildings. Successful applicants will be engaged for a period of three months and if eligible may take examination for regular appointment to be held in September by the United States Civil Service Commission. Salaries for temporary appointees from thirty to forty dollars per week. Address at once the Supervising Architect, Treasury Department, Washington, D. C., stating education, experience, reference, and the date on which applicant could report for duty. 8-1t

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